

# EXHIBIT D

1 UNITED STATES DISTRICT COURT  
2 SOUTHERN DISTRICT OF WEST VIRGINIA  
3 CHARLESTON DIVISION

4 \*\*\*\*\*

5 IN RE: ETHICON, INC., Master File No.  
6 PELVIC REPAIR SYSTEM 2:12-MD-02327  
7 PRODUCTS LIABILITY MDL 2327  
8 LITIGATION

9 JOSEPH R. GOODWIN  
10 THIS DOCUMENT RELATES TO: U.S. DISTRICT JUDGE  
11 THE CASES LISTED BELOW  
12

13 Mullins, et al. v.  
14 Ethicon, Inc., et al. 2:12-cv-02952  
15 Sprout, et al. v.  
16 Ethicon, Inc., et al. 2:12-cv-07924

17 Iquinto v. Ethicon, Inc.,  
18 et al. 2:12-cv-09765  
19 Daniel, et al. v.  
20 Ethicon, Inc., et al. 2:12-cv-02565

21 Dillon, et al. v.  
22 Ethicon, Inc., et al. 2:13-cv-02919  
23 Webb, et al. v.  
24 Ethicon, Inc., et al. 2:13-cv-04517

25 Martinez v. Ethicon,  
Inc., et al. 2:13-cv-04730  
McIntyre, et al. v.  
Ethicon, Inc., et al. 2:13-cv-07283

26 VIDEOTAPED DEPOSITION OF  
27 ROBYN LYN PRUEITT, Ph.D., D.A.B.T.

28 Thursday, October 22nd, 2015  
29 9:48 a.m.

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3 et al.  
4 Atkins, et al. v. 2:13-cv-11022  
5 Ethicon, Inc., et al.  
6 Garcia v. Ethicon, Inc., 2:13-cv-14355  
7 et al.  
8 Lowe v. Ethicon, Inc., 2:13-cv-14718  
9 et al.  
10 Dameron, et al. v. 2:13-cv-14799  
11 Ethicon, Inc., et al.  
12 Vanbuskir, et al. v. 2:13-cv-16183  
13 Ethicon, Inc., et al.  
14 Mullens, et al. v. 2:13-cv-16564  
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20 Barr, et al., v. 2:13-cv-22606  
21 Ethicon, Inc., et al.  
22 Lambert v. Ethicon, 2:13-cv-24393  
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16 Ethicon, Inc., et al.  
17 Kelly, et al. v. 2:14-cv-22079  
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19 Lundell v. Ethicon, 2:14-cv-24911  
20 Inc., et al.  
21 Cheshire, et al. v. 2:14-cv-24999  
22 Ethicon, Inc., et al.  
23 Burgoyne, et al. v. 2:14-cv-28620  
24 Ethicon, Inc., et al.  
25 Bennett, et al. v. 2:14-cv-29624  
Ethicon, Inc., et al.

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1 DEPOSITION OF ROBYN LYN PRUEITT, Ph.D., D.A.B.T.  
2  
3 Held At:  
4 Gradient Corporation  
5 20 University Road  
6 Cambridge, Massachusetts  
7  
8 REPORTED BY:  
9 Maureen O'Connor Pollard, RMR, CLR, CSR  
10  
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<p style="text-align: right;">Page 6</p> <p>1 PROCEEDINGS</p> <p>2</p> <p>3 THE VIDEOGRAPHER: We are now on the</p> <p>4 record. My name is Chris Coughlin, and I'm a</p> <p>5 videographer for Golkow Technologies. Today's</p> <p>6 date is October 22nd, 2015, and the time is</p> <p>7 9:48 a.m..</p> <p>8 This video deposition is being held in</p> <p>9 Cambridge, Massachusetts, In Re: Ethicon, Inc.,</p> <p>10 Pelvic Repair System Products Liability</p> <p>11 Litigation, in the United States District Court</p> <p>12 for the Southern District of West Virginia,</p> <p>13 Charleston Division.</p> <p>14 The deponent is Robyn Prueitt, Ph.D.,</p> <p>15 D.A.B.T..</p> <p>16 Will counsel please identify</p> <p>17 yourselves for the record.</p> <p>18 MR. ORENT: Good morning. Jonathan</p> <p>19 Orent for the Plaintiffs, I'm here with Dennis</p> <p>20 Costigan, also for the Plaintiffs.</p> <p>21 MR. HUTCHINSON: Chad Hutchinson,</p> <p>22 counsel for Johnson &amp; Johnson and Ethicon.</p> <p>23 MS. LOWRY: Patricia Lowry for</p> <p>24 Defendant Johnson &amp; Johnson and Ethicon.</p> <p>25 THE VIDEOGRAPHER: The court reporter</p>	<p style="text-align: right;">Page 8</p> <p>1 Exhibit 1 to today's deposition a copy of your</p> <p>2 report in this matter.</p> <p>3 (Whereupon, Prueitt Exhibit Number 1,</p> <p>4 Dr. Prueitt's October 9, 2015 expert</p> <p>5 report, was marked for</p> <p>6 identification.)</p> <p>7 BY MR. ORENT:</p> <p>8 Q. Do you recognize this Exhibit 1 as</p> <p>9 being a report authored by you and dated</p> <p>10 October 9, 2015?</p> <p>11 A. Yes.</p> <p>12 Q. And does this contain a full listing</p> <p>13 of all of the opinions that you intend to</p> <p>14 express in this matter?</p> <p>15 A. Yes, it does.</p> <p>16 Q. This report is signed on October 9th.</p> <p>17 When is it that you were first retained by</p> <p>18 Ethicon in this matter?</p> <p>19 A. October 2nd -- excuse me.</p> <p>20 October 1st.</p> <p>21 Q. Had you ever done any work for Ethicon</p> <p>22 prior to October 1st?</p> <p>23 A. No.</p> <p>24 Q. Now, this was signed on October 9th.</p> <p>25 When did it become final in terms of the draft?</p>
<p style="text-align: right;">Page 7</p> <p>1 is Maureen Pollard, and she will now swear in</p> <p>2 the witness.</p> <p>3</p> <p>4 ROBYN LYN PRUEITT, Ph.D., D.A.B.T.,</p> <p>5 having been first duly identified and sworn, was</p> <p>6 examined and testified as follows:</p> <p>7 EXAMINATION</p> <p>8 BY MR. ORENT:</p> <p>9 Q. We're getting a little bit late start</p> <p>10 today, I apologize to everyone. Traffic was</p> <p>11 unbearable. It took us over three hours to get</p> <p>12 here this morning from Providence, which is at</p> <p>13 least another hour plus than it should have</p> <p>14 taken. So I appreciate your courtesy.</p> <p>15 Ms. Prueitt, would you state -- excuse</p> <p>16 me. Dr. Prueitt, would you please state your</p> <p>17 full name for the record?</p> <p>18 A. Robyn Lyn Prueitt.</p> <p>19 Q. And did you ever go by any other</p> <p>20 names, a maiden name, anything like that?</p> <p>21 A. No.</p> <p>22 Q. Are you currently married?</p> <p>23 A. Yes.</p> <p>24 Q. Ms. Prueitt -- excuse me.</p> <p>25 Dr. Prueitt, I'm going to mark as</p>	<p style="text-align: right;">Page 9</p> <p>1 A. October 9th.</p> <p>2 Q. So you were editing it and working on</p> <p>3 it up until the moment you signed it?</p> <p>4 A. Yes.</p> <p>5 Q. And prior to October 1st, what work</p> <p>6 had you done on medical devices?</p> <p>7 A. None.</p> <p>8 Q. How about medical implants?</p> <p>9 A. None.</p> <p>10 Q. When is the first time you evaluated</p> <p>11 testing using the ISO-10993 series tests?</p> <p>12 A. For this case.</p> <p>13 Q. This is the first time that you ever</p> <p>14 evaluated ISO-10993 type testing, is that right?</p> <p>15 A. Yes.</p> <p>16 Q. And when is the first time that you</p> <p>17 ever evaluated preclinical animal studies?</p> <p>18 A. Just in general?</p> <p>19 Q. In general.</p> <p>20 A. I can't say. I've evaluated many such</p> <p>21 studies over the course of my time at Gradient</p> <p>22 in evaluating toxicity of various chemicals.</p> <p>23 Q. Okay. So I used the term preclinical.</p> <p>24 Have you ever evaluated, prior to this case, an</p> <p>25 in vivo study of an implant?</p>

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1 A. No.

2 Q. Prior to this, what types of in vivo

3 animal studies did you look at?

4 A. All sorts of studies, acute studies to

5 determine the acute toxicity, such as lethality

6 studies, subacute studies of less than 30 days

7 in duration of various chemicals by various

8 exposure routes, subchronic studies, that is

9 90 day studies of various chemicals, and chronic

10 studies, particularly carcinogenicity studies.

11 Q. And how far out -- what's the longest

12 in time that you have seen animal studies go?

13 A. I've seen a few go past two years,

14 though two years is the sort of standard amount

15 of time.

16 Q. Standard for the work that you've done

17 in the past?

18 A. Yes.

19 Q. And prior to your work -- I used the

20 particular ISO protocol 10993 in my prior

21 questions, had you done in vitro assay work

22 prior to this case?

23 A. I have, although not under the ISO

24 guidelines. But yes, in general I have done in

25 vivo -- excuse me, in vitro studies.

Page 11

1 Q. Okay. What types of in vitro studies

2 did you do previously?

3 A. Quite a few. In my past work I

4 have -- I've added nicotine to prostate cancer

5 cells to study their growth and potential

6 tumorigenic properties after that exposure.

7 I've used in vitro cells to extract protein, DNA

8 or RNA for various molecular biology

9 applications.

10 Q. Have you done any cytotoxicity

11 studies, as you've defined the term in your

12 report, previously in the in vitro context?

13 A. In general terms not, in the way that

14 it's described in my report.

15 Q. How about in specific terms?

16 A. No.

17 Q. Now, you've been here at Gradient

18 since 2008, is that correct?

19 A. 2007.

20 Q. 2007.

21 Before that, you worked at the Fred

22 Hutchinson Cancer Research Center?

23 A. Yes.

24 Q. And before that, the National Cancer

25 Institute, is that correct?

Page 12

1 A. Yes.

2 Q. Have you ever -- did you do any

3 private consulting while working at Fred

4 Hutchinson Cancer Research Center?

5 A. No, I did not.

6 Q. How about while at the National Cancer

7 Institute?

8 A. No.

9 Q. So all of your private consulting

10 began when you came to Gradient?

11 A. Yes.

12 Q. Now, I see that you have not testified

13 in the last four years. Have you ever provided

14 deposition testimony at all?

15 A. No, I haven't.

16 Q. So this is your first time?

17 A. Yes.

18 Q. Have you ever provided testimony in a

19 trial?

20 A. No.

21 Q. Have you ever worked on -- strike

22 that.

23 Have you ever sat in on a deposition?

24 A. No.

25 Q. Have you ever, prior to your

Page 13

1 preparation for this and prior to your retention

2 to this case, ever worked to prepare someone for

3 a deposition?

4 A. Yes.

5 Q. On approximately how many occasions?

6 A. Maybe two or three.

7 Q. And what context? What types of

8 litigation was that involved in?

9 A. Let's see. I can't discuss

10 specifically because they never -- the cases

11 never went to trial, so I'm concerned about

12 confidentiality.

13 Q. Okay.

14 A. But in general, toxic tort cases where

15 there was exposure to a substance in air and

16 claims of health effects.

17 Q. Okay. Can you tell me what that

18 substance was?

19 A. I don't know if I can.

20 Q. Okay. You've done consulting on

21 behalf of companies that formerly manufactured

22 asbestos, is that correct?

23 A. Yes.

24 Q. And you've also done consulting on

25 behalf of companies that manufactured tobacco

<p style="text-align: right;">Page 14</p> <p>1 products, correct?</p> <p>2 A. Yes.</p> <p>3 Q. And you've also done work for the</p> <p>4 American Petroleum Institute, is that right?</p> <p>5 A. Yes.</p> <p>6 Q. And you've also done work for</p> <p>7 individual manufacturers of petroleum products,</p> <p>8 gas products, correct?</p> <p>9 A. Yes.</p> <p>10 Q. And you've also done work for other</p> <p>11 companies that utilize benzene-based products,</p> <p>12 is that right?</p> <p>13 A. Yes.</p> <p>14 Q. And with regard to asbestos, you've</p> <p>15 worked -- or you've formed opinions as to</p> <p>16 whether or not chrysotile asbestos is a</p> <p>17 carcinogen, is that right? That's one of the</p> <p>18 questions you looked at?</p> <p>19 A. Yes. I did not form opinions. I was</p> <p>20 in a supporting role. But yes, that is a</p> <p>21 question that was looked at.</p> <p>22 Q. And ultimately, the person who was</p> <p>23 testifying that you worked for in that context</p> <p>24 concluded that chrysotile asbestos was not</p> <p>25 carcinogenic, is that right?</p>	<p style="text-align: right;">Page 16</p> <p>1 demonstrate that the individual complainant</p> <p>2 could not have developed mesothelioma as a</p> <p>3 result of exposure to chrysotile asbestos, is</p> <p>4 that right?</p> <p>5 A. Yes.</p> <p>6 Q. Now similarly, with regard to the work</p> <p>7 that you've done on benzene, you ultimately were</p> <p>8 retained by someone, a defendant in litigation,</p> <p>9 who wanted Gradient to provide testimony that</p> <p>10 said that benzene was not the cause of an</p> <p>11 individual complainant's cancer, is that right?</p> <p>12 A. I believe so.</p> <p>13 Q. And similarly, in the tobacco cases</p> <p>14 that you've worked on, the tobacco companies</p> <p>15 retained Gradient, and you assisted in preparing</p> <p>16 reports where ultimately the opinions of</p> <p>17 Gradient were that the tobacco was not a</p> <p>18 contributor to the individual's development of</p> <p>19 cancer, correct?</p> <p>20 MR. HUTCHINSON: Object to form.</p> <p>21 A. No.</p> <p>22 BY MR. ORENT:</p> <p>23 Q. No. Okay.</p> <p>24 What was your role in the tobacco</p> <p>25 cases?</p>
<p style="text-align: right;">Page 15</p> <p>1 A. Yes, I believe so.</p> <p>2 Q. And that is contrary to what the World</p> <p>3 Health Organization has said about chrysotile</p> <p>4 asbestos, is that right?</p> <p>5 A. I don't know.</p> <p>6 Q. In assisting in that work, did you go</p> <p>7 to the World Health Organization's publications,</p> <p>8 like IARC, or any of the other World Health</p> <p>9 Organization publications to determine whether</p> <p>10 or not they believed that chrysotile asbestos</p> <p>11 was carcinogenic?</p> <p>12 A. No, because my portion of the work</p> <p>13 really didn't involve that aspect.</p> <p>14 Q. And did your portion look at the</p> <p>15 epidemiology related to workers who had been</p> <p>16 exposed to chrysotile asbestos?</p> <p>17 A. No.</p> <p>18 Q. Did it involve looking at lung tissue</p> <p>19 samples of individuals who had been exposed to</p> <p>20 chrysotile asbestos products?</p> <p>21 A. No.</p> <p>22 Q. And the context in which you were</p> <p>23 working on these cases was that your company,</p> <p>24 Gradient, had been hired by companies to</p> <p>25 demonstrate that the risk -- excuse me, to</p>	<p style="text-align: right;">Page 17</p> <p>1 A. It was very small. It was shortly</p> <p>2 after I started at Gradient, so I don't remember</p> <p>3 a lot of the specifics, but it had to do with</p> <p>4 comparison of light cigarettes to regular</p> <p>5 cigarettes.</p> <p>6 Q. And ultimately, the conclusion there</p> <p>7 was that regular cigarettes have a more</p> <p>8 carcinogenic potential, is that right?</p> <p>9 A. I don't know.</p> <p>10 Q. And that was -- you were there</p> <p>11 retained on behalf of the Defendant in that</p> <p>12 tobacco litigation, correct?</p> <p>13 A. I'm actually not clear if there was</p> <p>14 litigation. It may have just been consulting to</p> <p>15 understand the scientific issues better.</p> <p>16 Q. Okay. And I see you also were</p> <p>17 retained in some lead litigation, is that</p> <p>18 correct?</p> <p>19 A. Yes.</p> <p>20 Q. And there you worked to determine that</p> <p>21 individual exposure to lead was not the cause of</p> <p>22 the injuries complained of by a group of</p> <p>23 individual children, is that right?</p> <p>24 A. Yes, that's what the testifying expert</p> <p>25 was claiming.</p>



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1 Q. Okay. And one of the things that  
2 you're aware of is that lead has no known  
3 threshold below which there's not been seen to  
4 have been found an effect, is that correct?  
5 A. That's debatable in the scientific  
6 literature.  
7 Q. Okay. So you're aware that the CDC  
8 has taken the position that there is no  
9 threshold below which lead doesn't have an  
10 effect?  
11 A. I think I've seen that statement.  
12 Q. Okay. And you disagree with that  
13 statement?  
14 A. I think that some of the work done  
15 here at Gradient may contradict that statement.  
16 Q. Okay. And so what threshold have you  
17 worked on here at Gradient that shows that there  
18 is a threshold effect for lead?  
19 A. I can't remember.  
20 Q. Do you know, as you sit here today, do  
21 you recall what the threshold was that you all  
22 determined?  
23 A. No, I don't remember.  
24 Q. But certainly you are aware that  
25 individuals at Harvard, for example Phil

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1 Landrigan, has done a lot of research that shows  
2 that, for example, at 3 micrograms per deciliter  
3 there's conclusive effects on individuals?  
4 MR. HUTCHINSON: Object to form.  
5 A. I don't know. I don't know that  
6 they're conclusive.  
7 BY MR. ORENT:  
8 Q. So you're also aware that the World  
9 Health Organization has formed statements on  
10 lead, correct?  
11 A. I can't remember. I really didn't  
12 prepare to talk about lead today.  
13 Q. Okay. But your opinion certainly, as  
14 you sit here today, is that you believe that  
15 there is a threshold for lead exposure, correct?  
16 A. I believe that some of the scientists  
17 at Gradient have produced manuscripts in the  
18 peer-reviewed literature and other comments that  
19 indicate that there's likely a threshold.  
20 Q. And who are those individuals that  
21 wrote those?  
22 A. Barbara Beck, and Theresa Bowers.  
23 Q. Now, Barbara Beck was retained by the  
24 Lead Industries Association, was she not?  
25 A. I don't know who she was retained by.

Page 20

1 Q. But she's done work in litigation,  
2 regardless, on lead poisoning?  
3 A. Yes.  
4 Q. And you as a scientist, do you put  
5 more weight and credibility into the work done  
6 by Barbara Beck and the individuals here at  
7 Gradient, or do you put more weight onto the  
8 CDC's statements in 1991 and 2005 and 2014, I  
9 think was the latest one?  
10 MR. HUTCHINSON: Object to form.  
11 A. Well, here we look at all the  
12 evidence, and so whatever the evidence that the  
13 CDC used as their basis we also examine, but we  
14 also examine the work of Barbara Beck as well.  
15 So, you know, it just depends on -- it's  
16 actually a large body of data. We evaluate a  
17 large number of studies and, you know, come to  
18 our conclusions based on that large body of  
19 data.  
20 BY MR. ORENT:  
21 Q. Okay. And just for the record, the  
22 American Academy of Pediatrics has also come out  
23 strongly in multiple iterations in the last  
24 15 years suggesting that lead has no known  
25 threshold below which there are not -- negative

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1 effects have been found, is that right?  
2 MR. HUTCHINSON: Form.  
3 A. I don't know.  
4 BY MR. ORENT:  
5 Q. Okay. But that would be contrary to  
6 the position that Gradient has taken as well,  
7 correct?  
8 A. Yes.  
9 Q. Okay. In your work for Gradient, have  
10 you found in the asbestos context a threshold  
11 below which you believe that there are no known  
12 adverse effects of exposure to asbestos?  
13 MR. HUTCHINSON: Object to form.  
14 Also, Counsel, that exceeds the scope  
15 of her report.  
16 MR. ORENT: I understand. I'm getting  
17 into background and bias.  
18 A. I'm sorry, can you repeat it?  
19 BY MR. ORENT:  
20 Q. Sure.  
21 Do you believe that there's a  
22 threshold below which asbestos cannot cause  
23 human health problems?  
24 MR. HUTCHINSON: Same objections.  
25 A. I don't know. Again, I had a very

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1 small supporting role in the asbestos work here,  
2 so I'm not really prepared to discuss that.  
3 BY MR. ORENT:  
4 Q. Okay. So you started work on this on  
5 October 1st.  
6 Between October 1st and October 9th,  
7 how many hours do you put in?  
8 A. I have an invoice.  
9 Q. I'd love to see that. That may be a  
10 good time for me to mark as Exhibit 2 to today's  
11 deposition a copy of the notice of deposition  
12 for today.  
13 (Whereupon, Prueitt Exhibit Number 2,  
14 Notice of deposition, was marked for  
15 identification.)  
16 A. Did you ask number of hours?  
17 BY MR. ORENT:  
18 Q. The number of hours, correct.  
19 A. Myself through last Friday, this  
20 invoice indicates I worked 51 hours. And then  
21 because this invoice only goes through last  
22 Friday, also approximately 19 hours this week.  
23 However, other individuals have also worked on  
24 this with me.  
25 Q. Okay. Can I take a look at that

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1 billing statement?  
2 A. Sure (handing).  
3 Q. So this runs through the 16th of  
4 October. How many hours were spent between the  
5 10th and 16th of October?  
6 MR. HUTCHINSON: Counsel, do you have  
7 another copy for the witness to look at?  
8 MR. ORENT: I can hand this back. She  
9 just gave this this morning.  
10 A. I am not sure. I cannot tell from  
11 this.  
12 BY MR. ORENT:  
13 Q. Between the 10th and the 16th, did you  
14 continue to do work reading materials and work  
15 on this case?  
16 A. Yes, but very little. Actually it  
17 would have been -- it was probably around eight  
18 hours or so. Not very many.  
19 Q. How about your staff, did they  
20 continue doing work on this?  
21 A. Only helping me prepare for this  
22 deposition in terms of printing documents for me  
23 and organizing documents.  
24 Q. Now, in terms of the report itself,  
25 did your staff do any of the work in terms of

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1 the substantive work of drafting the report, or  
2 did you draft all of it?  
3 A. They did help in doing research to  
4 draft the report.  
5 Q. And who -- let's start specifically.  
6 What was your role in doing this  
7 report?  
8 A. I made an outline as to what the  
9 report would contain, and I asked staff to help  
10 me go through some of the documentation and to  
11 summarize some of the documentation for me, and  
12 to help in the initial draft sections, some of  
13 them. And then I myself was responsible for the  
14 final report, or editing draft sections, and  
15 writing several of the sections.  
16 Q. Were there notes exchanged between you  
17 and the members of your team on the various  
18 sections, or how was that work accomplished?  
19 A. No. We met in person.  
20 Q. Now, let me just look at this for a  
21 minute.  
22 What role did Sara Pacheco Shubin --  
23 P-A-C-H-E-C-O, next word S-H-U-B-I-N -- play in  
24 the work on this? Who is she?  
25 A. She was the project manager for this

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1 work.  
2 Q. What is a project manager?  
3 A. At Gradient the project manager is  
4 responsible for kind of the day-to-day aspects  
5 of the project as far as helping find people to  
6 work on the project, dealing with getting the  
7 project started and in our accounting system,  
8 reviewing invoices before they go out.  
9 Q. Are they responsible for any  
10 substantive work?  
11 A. They can be. And in this case, yes,  
12 Sara was. She helped me to review a lot of the  
13 documents, a lot of the studies, and she helped  
14 in the early drafting of some of the sections.  
15 Q. Now, in this particular case, you  
16 spent as of the 16th 51 hours. And based on  
17 your testimony that you spent about eight hours  
18 between the 10th and 16th, that leads me to  
19 believe that you spent about 43 hours and  
20 one-tenth, so 43.1 hours in the actual time  
21 period between when you got the assignment and  
22 drafted the report. Is that approximately  
23 correct?  
24 A. Yes.  
25 Q. Okay. Now, looking at your report,



<p style="text-align: right;">Page 26</p> <p>1 there's a number of reliance documents beginning  2 on Page 18, and that continues between 18 and  3 23, and then there's a Section 6.2 which is sort  4 of reliance documents in addition to the ones  5 that were referenced in the report, and that  6 goes to Page 24, 25, 26, and 27.  7 My first question to you is, in  8 Section 6.1, References, prior to writing the  9 report, did you yourself read each and every one  10 of these references before you wrote the report?  11 A. Yes, at least portions of them.  12 Q. Did you read the entirety of each and  13 every one of these references before writing  14 your report?  15 A. No, because some of these are book  16 chapters, and I only needed to look at certain  17 sections of the chapter.  18 Q. Okay. So before writing your report,  19 did you read the full Adami article?  20 A. No.  21 Q. Prior to writing your report, did you  22 read the full Aigmueller article?  23 A. Yes.  24 Q. Did you read the AUGS Position  25 Statement prior to drafting your report?</p>	<p style="text-align: right;">Page 28</p> <p>1 on this?  2 A. No.  3 Q. Prior to drafting your opinions in  4 this case, did you read the entire Ethicon  5 Research Foundation 1971 document?  6 A. Yes.  7 Q. And did you read the entire 1972  8 document before beginning work?  9 A. Yes.  10 Q. Before beginning work, did you read  11 the entire Ethicon Research Foundation 1975  12 document?  13 A. I don't remember.  14 Q. To date, have you read that entire  15 document?  16 A. Yes.  17 Q. How about the Ethicon Research  18 Foundation 1983, Prolene Sutures, did you read  19 that in its entirety before beginning your  20 report?  21 A. I don't think so.  22 Q. How about the next one, the 1983b?  23 A. I don't think so.  24 Q. How about the 1984, did you read that  25 in its entirety before beginning your draft of</p>
<p style="text-align: right;">Page 27</p> <p>1 A. Yes.  2 Q. Prior to drafting your report, did you  3 read the AUGS Position Statement on Midurethral  4 Slings? This is the second reference there.  5 A. Yes, I did.  6 Q. Did you read the AUA statement?  7 A. Yes.  8 Q. How about Barbolt, did you read that  9 document in its entirety?  10 A. Yes, I did.  11 Q. And you read that before beginning  12 work on this?  13 A. Yes, before drafting the report.  14 Q. And the second Barbolt, did you read  15 that in its entirety before beginning work on  16 this?  17 A. Yes, I did.  18 Q. Beck, did you read that in its  19 entirety before beginning work?  20 A. No.  21 Q. What portions did you read -- did you  22 read the entire section on Page 35 to 87?  23 A. No.  24 Q. And Eaton, did you read the entire  25 section, Page 13 to 48, prior to beginning work</p>	<p style="text-align: right;">Page 29</p> <p>1 your report?  2 A. I don't think so.  3 Q. How about the 1988 Prolene, did you  4 read that in its entirety before beginning your  5 draft report?  6 A. No.  7 Q. How about the 1989 Ethicon Research  8 Foundation document, did you read that in its  9 entirety before beginning your report?  10 A. No.  11 Q. How about the 1990a, did you read that  12 in its entirety before beginning your report?  13 A. No.  14 Q. How about the 1990b?  15 A. No.  16 Q. 1990c?  17 A. No.  18 Q. How about the 1990d?  19 A. No.  20 Q. How about the 1991a?  21 A. No.  22 Q. 1991b?  23 A. No.  24 Q. How about the 1997 Biological  25 Reactivity In Vitro Cytotoxicity-Elution Test,</p>

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1 did you read that in its entirety before  
2 beginning work on your report?  
3 A. Yes.  
4 Q. How about the 1997b?  
5 A. Yes.  
6 Q. How about the 1997c?  
7 A. Yes.  
8 Q. How about the 1964a, Study of Tissue  
9 Reaction to Colorless and Pigmented,  
10 Monofilament, Polypropylene Suture in the rat  
11 and the dog?  
12 A. Yes.  
13 Q. How about the 1964b?  
14 A. No, not in its entirety.  
15 Q. How about the 1965a?  
16 A. No.  
17 Q. How about the 1965b?  
18 A. No.  
19 Q. How about the 1973 Biological  
20 Evaluation in Rabbits?  
21 A. No.  
22 Q. How about the Ethicon 1991 Prolene  
23 Suture?  
24 A. No.  
25 Q. How about the 1996 Corporate Product

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1 Characterization: Product Safety Profile -  
2 Prolene?  
3 A. Yes.  
4 Q. How about the TVT System 510(k)  
5 Notification, did you read that in its entirety?  
6 A. Yes.  
7 Q. How about the 28-Day Intramuscular  
8 Tissue Reaction Study in Rats?  
9 A. Yes.  
10 Q. And the 182-day Intramuscular Tissue  
11 Reaction Study?  
12 A. Yes.  
13 Q. You read that in its entirety?  
14 A. Yes.  
15 Q. And the 2001 study?  
16 A. Yes.  
17 Q. How about the Clinical Evaluation  
18 Report, the Ethicon 2013, did you read that in  
19 its entirety before starting your report?  
20 A. Not in its entirety.  
21 Q. And how about the European Commission  
22 2013 Report?  
23 A. Not in its entirety.  
24 Q. How about Goutcher 1997, did you read  
25 that in its entirety?

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1 A. Yes.  
2 Q. How about Groutz, did you read that in  
3 its entirety prior to beginning your report?  
4 A. Yes.  
5 Q. How about Hazleton?  
6 A. Yes.  
7 Q. And Hill, did you reread that?  
8 A. Yes.  
9 Q. And the ISO Standardization, did you  
10 read that, the 2009a?  
11 A. Not in its entirety.  
12 Q. How about the 2009b?  
13 A. Also not in its entirety.  
14 Q. How about the IUGA 2014 Statement?  
15 A. Yes.  
16 Q. How about the Linder article?  
17 A. Not in its entirety.  
18 Q. How about Linkov?  
19 A. Not in its entirety.  
20 Q. How about Martini, 1993 internal memo?  
21 A. Yes.  
22 Q. How about the Nilsson article?  
23 A. Yes.  
24 Q. How about the NAMSA article?  
25 A. Yes.

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1 Q. And how about the 1997b NAMSA?  
2 A. Yes.  
3 Q. And 1997c?  
4 A. Yes.  
5 Q. And 1997d?  
6 A. Yes.  
7 Q. 1997e?  
8 A. Yes.  
9 Q. And 1997f?  
10 A. Yes.  
11 Q. And "g"?  
12 A. Yes.  
13 Q. How about "h"?  
14 A. Yes.  
15 Q. And the North American Science  
16 Associates 2015, did you read that in its  
17 entirety before beginning work on writing this  
18 report?  
19 A. Yes.  
20 Q. How about Olsson?  
21 A. Yes.  
22 Q. Rhomberg?  
23 A. No.  
24 Q. How about the Royal Australian and New  
25 Zealand College of Obstetricians and

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1 Gynecologists Position Statement?  
2 A. Yes.  
3 Q. How about Serati?  
4 A. Yes.  
5 Q. Svenningsen?  
6 A. Yes.  
7 Q. How about the EPA Region 3, is that  
8 just a reference you had on hand?  
9 A. No, I actually looked at it.  
10 Q. Okay. How about FDA 2013?  
11 A. Not in its entirety.  
12 Q. How about FDA 1995?  
13 A. Yes.  
14 Q. How about Wang?  
15 A. Yes.  
16 Q. How about Ward?  
17 A. Not in its entirety.  
18 Q. How about Weed?  
19 A. Not in its entirety.  
20 Q. Wickwire?  
21 A. Not in its entirety.  
22 Q. And Yoon?  
23 A. Not in its entirety.  
24 Q. Okay. Turning to 6.2, did you read  
25 all of the material in Section 6.2 of your

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1 report prior to beginning work on drafting your  
2 report in this case?  
3 A. No.  
4 Q. Do you agree with me that there's a  
5 significant portion of the documents in  
6 Section 6.2 that you did not read prior to  
7 completing your report?  
8 MR. HUTCHINSON: Object to form.  
9 A. No. There's very few that I didn't.  
10 Specifically I did not read the IARC -- on  
11 Page 27, the IARC Preamble, it's the first  
12 document listed on Page 27. I'm quite familiar  
13 with that document; however, I was not asked to  
14 evaluate carcinogenicity in this case, so I did  
15 not review that document.  
16 BY MR. ORENT:  
17 Q. Are there any other documents you did  
18 not read in their entirety before completing the  
19 draft report on October 9th?  
20 A. I did not read also on the same page  
21 the MSDS materials, Sunoco MSDS in its entirety  
22 before drafting the report.  
23 Q. Did you read it in partial?  
24 A. Yes.  
25 Q. Is there anything else in this

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1 Section 6.2 that you did not read in its  
2 entirety prior to writing your report?  
3 A. I cannot answer that accurately,  
4 because some of the Eth.Mesh documents, I cannot  
5 tell what they are from here. However, I did at  
6 least open all of them, and if they looked  
7 relevant to what I needed to put in my report,  
8 then I would have read them, or at least skimmed  
9 them to see how relevant they were.  
10 Q. Now, there's on here on 2014, 30(b)(6)  
11 Deposition Summary Exhibit. Was that a summary  
12 of the Barbolt deposition?  
13 A. Sorry, what page?  
14 Q. Page 25 under -- the first one under  
15 2014.  
16 A. I believe that's a list of studies.  
17 Q. That's the exhibit that he used in his  
18 deposition, that he had brought to that  
19 deposition?  
20 A. I believe so.  
21 Q. So that's not a summary of his  
22 deposition that you were provided?  
23 A. No.  
24 Q. Were you provided any summaries of the  
25 material on either 6.1 or 6.2?

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1 A. Any summaries. No.  
2 Q. Let me ask you, did you do your own  
3 research to identify each and every one of the  
4 sources cited in your report?  
5 A. No.  
6 Q. Were the references in Section 6.1  
7 provided to you by Ethicon?  
8 A. Some of them were.  
9 Q. Which ones were not provided by  
10 Ethicon?  
11 A. There are approximately 17 such  
12 references, because I thought we provided them,  
13 PDFs. I mean I could go through and try to  
14 remember.  
15 Q. If you would.  
16 A. So -- and they would only be in  
17 Section 6.1.  
18 Q. Okay.  
19 A. And that would be the Adami article,  
20 and then the Beck book chapter, the Eaton book  
21 chapter.  
22 And then on Page 21, the European  
23 Commission 2013, the Hill 1965 article, the ISO  
24 2009a and 2009b documents, the Linder article,  
25 the Linkov article, the Rhomberg article, US EPA

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1 Region 3 statement, the US FDA 2013, although I  
2 believe I later noticed that this document was  
3 in, but the initial -- when I read this  
4 initially, I had obtained this article myself.  
5 Q. Okay.  
6 A. The US FDA 1995 reference, the Ward  
7 article, the Weed article, the Wickwire article,  
8 and the Yoon article.  
9 Q. Okay. In terms of the documents and  
10 articles listed in Section 6.2, was all of the  
11 material in Section 6.2 provided to you by  
12 counsel for Ethicon?  
13 A. Yes, it was.  
14 Q. Now, what particular searches did you  
15 use to identify the 17 articles that you  
16 yourself pulled? Why were these 17 articles the  
17 ones that you selected?  
18 A. Right. They were mainly used to  
19 describe the methods that I used for my  
20 analysis, and these are very common references  
21 for these methods that others at Gradient have  
22 used as well.  
23 Q. And there you're talking about weight  
24 of the evidence approach, is that correct?  
25 A. And causation, yes.

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1 Q. So in terms of the substance of your  
2 report, the vast majority of the material that  
3 you were provided, if not all of it, serves as  
4 the basis of your opinions, is that right?  
5 A. Yes, most of it.  
6 Q. So there's very little original  
7 research that you utilized to form the opinions  
8 that have been presented in Sections 1 and 2 of  
9 your report?  
10 MR. HUTCHINSON: Object to form.  
11 BY MR. ORENT:  
12 Q. And 3.  
13 A. Well, I did perform literature  
14 searches to try to identify studies, toxicity of  
15 Prolene and polypropylene and TVT in the  
16 peer-reviewed literature. However, those  
17 searches didn't come up with anything.  
18 Q. Approximately how long did you spend  
19 doing searches?  
20 A. Our library staff helps with that, so  
21 that would be the work of Ruth Lyddy. Looks  
22 like she spent 12 hours.  
23 Q. Do you know, in the 12 hours that Ruth  
24 spent, do you know what -- did she do a search  
25 of PubMed? Would that have been one of the

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1 sources?  
2 A. Yes. PubMed. Actually I need to  
3 restate that.  
4 It may not have been 12 hours on  
5 literature searches because she also did help  
6 catalog documents for us, so that's -- when we  
7 receive documents we catalog them so that we can  
8 find them easily again in the future, so she  
9 also did work on that. So that's likely not 12  
10 full hours of literature searching.  
11 However, back to your other question,  
12 in my report I note that the searches were in  
13 PubMed, and I believe Scopus, the Scopus  
14 database, but let me double-check that.  
15 Yes, PubMed and Scopus database.  
16 Q. What section are you on, 2 point --  
17 A. 2.1, underneath the bullets.  
18 Q. And those were the mesh terms that you  
19 used?  
20 A. Yes.  
21 Q. Okay. Now, if I understand your  
22 opinions in this case, your general opinion is  
23 that Prolene mesh in the TVT device is not  
24 cytotoxic. Does that summarize, adequately  
25 state your opinion?

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1 A. Almost.  
2 Q. Okay. Why don't you state it.  
3 A. That Prolene mesh in the TVT device is  
4 not cytotoxic in vivo, and that the weight of  
5 the evidence indicates that it is also not  
6 cytotoxic in humans.  
7 Q. Would you agree with me that Prolene  
8 mesh is cytotoxic in vitro?  
9 A. In some studies, but not all, yes.  
10 Q. I'm going to shift gears as we start  
11 to get into some of the substantive stuff.  
12 We've been going about 50 minutes, 45 minutes,  
13 which is kind of early for our first break, but  
14 if you need it, I'm happy to go now. It's up to  
15 you?  
16 MR. HUTCHINSON: Why don't we take  
17 five minutes.  
18 THE VIDEOGRAPHER: Going off the  
19 record. The time is 10:34.  
20 (Whereupon, a recess was taken.)  
21 THE VIDEOGRAPHER: Back on the record.  
22 The time is 10:43.  
23 BY MR. ORENT:  
24 Q. I just want to cover a few more  
25 preliminary things before we move forward.

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1 First of all, focusing on Exhibit 2,  
2 the notice of deposition that I've brought in  
3 front of you, did you bring -- I know that you  
4 brought with you a copy of your billing  
5 statement. Did you bring any other materials  
6 with you responsive to any of the items, Numbers  
7 1 through 21 on Exhibit 2, Schedule A?  
8 A. Well, I brought with me my report,  
9 this billing, and these binders which are the  
10 documents that I referenced in my report, so  
11 everything listed in Section 6.1.  
12 Q. Okay. Now, as far as your binders are  
13 concerned, I see that there's some tabs on  
14 there. Are there any handwritten notes or  
15 highlights anywhere in your report, in the  
16 reliance material that you brought with you?  
17 A. No. At least not by me. It is  
18 possible that -- actually, no. These were made  
19 from PDFs. I don't think so. I certainly  
20 didn't make notes.  
21 Q. So that's a clean copy of the material  
22 listed on either Section 6.1 or 6.2 to your  
23 report, is that correct?  
24 A. I guess it is possible a few of the  
25 documents may have had writing on them if they

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1 were hard copy before they were PDF'd, but  
2 again, those notes would not be made by me.  
3 Q. Do you have handwritten notes on  
4 copies of articles somewhere?  
5 A. No.  
6 Q. What are the tabs that are -- the  
7 green stickies on the top there, the page flags?  
8 A. Actually I don't know. I did not put  
9 those there. Let me see.  
10 Q. I see actually there's a little note.  
11 A. Okay. I don't know who did this. I  
12 think it's -- but this note looks like it's  
13 explaining, for example, this is a study,  
14 cytotoxicity study that covers both Elution and  
15 Agarose overlay, so I guess to help me identify.  
16 Q. If you would identify just for the  
17 record --  
18 A. What these are?  
19 Q. Yes, what the pages are, and actually  
20 just read the note into the record. So  
21 identify, for example, tab, whatever the tab  
22 number is on your report, read in the note, and  
23 identify it's on the cover sheet of that report,  
24 so that there's a clear record at the end of  
25 this as to what exactly everything is that

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1 you're looking at.  
2 A. Okay. And I apologize, I did not know  
3 these were here.  
4 Q. That's fine.  
5 A. I hadn't reviewed this, because I had  
6 already previously looked at most of these  
7 documents.  
8 Okay. So in tab 19, the note says  
9 "both Elution and Agarose overlay studies  
10 reported."  
11 And tab 20 says the same thing, "both  
12 Elution and Agarose overlay studies reported."  
13 Tab 21, same note word-for-word.  
14 Q. Just for clarification, tab 21, that's  
15 the 1990d Ethicon Research Foundation?  
16 A. Tab 21?  
17 Q. Yes.  
18 A. It is the Goutcher 1997.  
19 Q. So then what I'm going to do, those  
20 are not in the exact order, I'm going to keep  
21 having you do that, and what we'll do is take a  
22 copy of the index and put that as part of the  
23 record.  
24 A. Okay. Tab 25, "both Elution and  
25 Agarose overlay studies reported."

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1 Tab 26, same note.  
2 And tab 27, same note.  
3 Q. Okay. And that index that you were  
4 referring to earlier, is that an index of all  
5 three binders that you brought with you?  
6 A. Each binder has its own index.  
7 Q. Okay. If you would just take a look  
8 at the other binders, and just verify for me  
9 that there's nothing else in there, tabbed or --  
10 A. There's one on this second binder.  
11 Tab 36, the note says "Agarose overlay only."  
12 And the third binder has no notes.  
13 Q. Okay. So what I'd like to do now is  
14 mark the three cover sheets collectively as one  
15 exhibit. We can do that as Exhibit 3.  
16 MR. ORENT: Actually I'm happy to do  
17 it that way if I get counsel's assurance that  
18 those documents are, in fact, what are on here,  
19 and that they're all in the production material,  
20 and there's no other notes.  
21 MR. HUTCHINSON: We'll be happy to  
22 accommodate you, Counsel.  
23 MR. ORENT: Okay. I don't think  
24 anyone needs additional copies of what we all  
25 already have five copies of.



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1 (Whereupon, Prueitt Exhibit Number 3,  
2 Three index sheets from binders, was  
3 marked for identification.)  
4 MR. ORENT: I'm going to go ahead and  
5 mark this as Exhibit 3.  
6 And then as Exhibit 4, I'm going to  
7 just mark the billing statement that you  
8 provided us earlier this morning and we  
9 discussed.  
10 (Whereupon, Prueitt Exhibit Number 4,  
11 Billing Statement, was marked for  
12 identification.)  
13 BY MR. ORENT:  
14 Q. Just do me a favor and hand me the  
15 notice of deposition. I'm going to try and keep  
16 everything here together for Maureen so we don't  
17 lose anything at the end of the day today. And  
18 keep your report in front of you.  
19 Have you ever presented at DRI?  
20 A. No.  
21 Q. Do you know what DRI is?  
22 A. Yes.  
23 Q. What is DRI?  
24 A. Defense Research Institute. I know  
25 they have occasional meetings.

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1 (Whereupon, Prueitt Exhibit Number 5,  
2 Document titled DRI, Seminar, Toxic  
3 Torts and Environmental Law, was  
4 marked for identification.)  
5 BY MR. ORENT:  
6 Q. I'm going to mark Exhibit 5 a Seminar  
7 on Toxic Efforts and Environmental Law from DRI.  
8 And if you look at the list of sponsors on  
9 Page 8, you'll see Gradient listed there, is  
10 that correct?  
11 A. Yes.  
12 Q. And that's your company, is that  
13 correct?  
14 A. Yes, it is.  
15 Q. And if you look at -- if you look at  
16 the agenda on February -- excuse me, Page 2,  
17 February 28th through March 1st, there's a  
18 6:00 p.m. networking reception sponsored by  
19 Gradient, correct?  
20 A. Yes.  
21 Q. That's your company, correct?  
22 A. Yes.  
23 Q. And at the 2:45 hour, David Dodge from  
24 Gradient presented, is that correct?  
25 A. Yes.

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1 Q. And he presented on a whole host of  
2 potential carcinogens, correct?  
3 A. No, there are other chemicals besides  
4 carcinogens.  
5 Q. And let me ask you this. If you turn  
6 to Page 4, it says "David Dodge is a board  
7 certified toxicologist with Gradient Corporation  
8 in Bend, Oregon, specializing in applied  
9 research, risk-based human health evaluations  
10 and risk communication. Mr. Dodge has  
11 characterized health risks from exposure to  
12 chemical and biological agents in products,  
13 workplaces and the environment. He has  
14 conducted detailed toxicological evaluations of  
15 various chemicals."  
16 Did I read that correctly?  
17 A. Yes.  
18 Q. Do you know David?  
19 A. Yes, I do.  
20 Q. Have you worked with David?  
21 A. Yes, I have.  
22 Q. On what projects have you worked with  
23 David, what chemicals, generally speaking?  
24 A. Generally, I have to think. I haven't  
25 worked with him for a while.

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1 Q. Did you work with him on lead?  
2 A. No.  
3 Q. How about benzene?  
4 A. No.  
5 Q. TCE?  
6 A. Yes.  
7 Q. Parkinson's and formaldehyde?  
8 A. No.  
9 Q. Formaldehyde and leukemia?  
10 A. No.  
11 Q. Styrene?  
12 A. No.  
13 Q. Chloro --  
14 A. Chlorpyrifos?  
15 Q. Exactly.  
16 A. No.  
17 Q. And chromium?  
18 A. No.  
19 Q. If we were to read David's bio and  
20 substitute in your name, would it be accurate to  
21 describe you as a board certified toxicologist  
22 with Gradient Corporation, specializing in  
23 applied research, risk-based human health  
24 evaluations and risk communication?  
25 MR. HUTCHINSON: Form.

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1 A. Yes, except for the word  
2 "Corporation." Our company is now only called  
3 Gradient. But the rest would be correct.  
4 BY MR. ORENT:  
5 Q. And would it similarly be accurate to  
6 say that Dr. Prueitt has characterized health  
7 risks from exposure to chemical and biological  
8 agents in products, workplaces and the  
9 environment?  
10 A. Yes.  
11 Q. And she has conducted detailed  
12 toxicological evaluations of various chemicals?  
13 A. Yes.  
14 Q. And we talked earlier, you did work  
15 for API?  
16 A. Yes.  
17 Q. That's the American Petroleum  
18 Institute, correct?  
19 A. Yes.  
20 Q. And one of the things that you've done  
21 with them is we talked about you looked at  
22 benzene, correct?  
23 A. Not -- I don't believe that was for  
24 API.  
25 Q. I'm sorry, for petroleum manufacturers

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1 you've looked at benzene, correct?  
2 A. I've done very little benzene work,  
3 and I actually can't remember specifically who  
4 it was for.  
5 Q. Regardless, you've done work for API,  
6 the American Petroleum Institute, correct?  
7 A. Yes, I have.  
8 Q. And you've written policy papers for  
9 them, correct?  
10 A. Policy papers? I have written  
11 comments to regulatory agencies for them, and I  
12 have written peer-reviewed manuscripts and  
13 letters to the editor for them.  
14 Q. I'm going to hand you what's been  
15 marked as Exhibit 6 to today's deposition.  
16 (Whereupon, Prueitt Exhibit Number 6,  
17 Document titled Comments on US EPA's  
18 Proposed Reconsideration of the 2008  
19 NAAQS for Ozone dated 2/2/09, was  
20 marked for identification.)  
21 BY MR. ORENT:  
22 Q. And in this particular piece that I've  
23 handed you, Gradient was retained to oppose  
24 lowering the standard that EPA utilized for  
25 ozone, is that correct?

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1 A. Yes.  
2 Q. And what you argued here is  
3 essentially that there is no evidence of ozone  
4 exposure and adverse human health effects below  
5 the .08 parts per million, is that right?  
6 A. Yes.  
7 Q. And what ultimately happened with  
8 EPA's rulemaking on this?  
9 A. They just lowered the standard within  
10 the last week or two.  
11 Q. Thank you. You can put that down.  
12 And you talked earlier that you'd  
13 worked with Barbara Beck with lead, correct?  
14 A. Yes.  
15 MR. ORENT: Mark as Exhibit 7.  
16 (Whereupon, Prueitt Exhibit Number 7,  
17 Document titled Gradient to  
18 Participate in DRI Tox Torts and  
19 Environmental Law Seminar Feb 9-10 in  
20 Miami Beach, Florida, was marked for  
21 identification.)  
22 BY MR. ORENT:  
23 Q. Did you assist Barbara Beck in  
24 preparing for this DRI presentation in 2007?  
25 A. No.

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1 Q. Have you assisted in the preparation  
2 of other DRI presentations for Barbara or anyone  
3 else?  
4 A. No, I have not.  
5 Q. Did I ask you about Julie Goodman?  
6 A. No.  
7 Q. Do you know Julie Goodman?  
8 A. Yes, I do.  
9 Q. Have you worked with Julie Goodman?  
10 A. Yes.  
11 Q. How frequently?  
12 A. Quite frequently.  
13 Q. And have you worked with her on  
14 asbestos?  
15 A. I don't think so.  
16 Q. Do you disagree with her opinions?  
17 A. I don't know her specific opinions.  
18 Q. I'm going to hand you what's been  
19 marked as Exhibit 8 in this deposition.  
20 (Whereupon, Prueitt Exhibit Number 8,  
21 Document titled Defending the Wire and  
22 Cable Asbestos Cases, was marked for  
23 identification.)  
24 BY MR. ORENT:  
25 Q. Have you worked with Julie in

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1 litigation before?  
2 A. Yes.  
3 Q. And were you aware that Julie helped  
4 prepare this presentation on Defending the Wire  
5 and Cable Asbestos Cases?  
6 A. No, I was not aware of this.  
7 Q. All right. You can put that aside.  
8 (Whereupon, Prueitt Exhibit Number 9,  
9 Robyn Prueitt, Ph.D, DABT biography,  
10 was marked for identification.)  
11 BY MR. ORENT:  
12 Q. I'm going to hand you what's been  
13 marked as Exhibit 9. "Representative Projects."  
14 First, "Carcinogenic Assessment: Evaluated  
15 whether the weight of epidemiology, animal  
16 toxicity, mechanistic, and pharmacokinetic  
17 evidence indicates that toluene diisocyanate" --  
18 A. Diisocyanate.  
19 Q. -- "diisocyanate is a human  
20 carcinogen. This analysis used Gradient's  
21 hypothesis-based weight of the evidence approach  
22 and was published in peer-reviewed journal."  
23 What was your conclusion?  
24 A. That toluene diisocyanate is not  
25 likely to be a human carcinogen.

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1 Q. Okay. And there's a wide body of  
2 literature that supports the notion that toluene  
3 is, in fact, a human carcinogen, is that  
4 correct?  
5 MR. HUTCHINSON: Object to form.  
6 A. No.  
7 BY MR. ORENT:  
8 Q. Are there papers -- are there authors  
9 that would disagree with you?  
10 A. I'm not sure.  
11 Q. "Review of Toxicogenomics: Critically  
12 reviewed global gene expression profiling data  
13 for a population exposed to benzene and  
14 determined whether the expression profile could  
15 be used as a biomarker of benzene toxicity in a  
16 broader population, particularly without proof  
17 of benzene exposure from a specific source."  
18 What were your conclusions in that  
19 project?  
20 A. That project I was just reviewing a  
21 published article on gene expression profiling,  
22 and so the conclusions were along the lines of,  
23 you know, whether the science is strong enough  
24 to say that a gene expression profile can  
25 indicate benzene toxicity in people, even if

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1 there's no proof that they were exposed. So it  
2 was more just critically reviewing a manuscript.  
3 Q. And what were your conclusions?  
4 A. That the state of the science is not  
5 such that one can use a gene expression profile  
6 to conclusively determine whether benzene has  
7 caused toxicity.  
8 Q. In other words, you can't use the  
9 gene's expression to determine whether or not  
10 someone has had benzene exposure?  
11 A. No, it was you cannot use it to  
12 determine whether someone has suffered adverse  
13 effects of benzene.  
14 Q. Do you believe that there is a  
15 biomarker of benzene exposure, based on your  
16 work?  
17 A. I'm not sure.  
18 Q. Do you believe -- next is the lung  
19 cancer from exposure to asbestos during vehicle  
20 brake repair.  
21 Did you reach any conclusions with  
22 regard to that project?  
23 A. I don't remember. I think I had an  
24 extremely small role on that project.  
25 Q. You were retained by asbestos brake

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1 manufacturers in that project, correct?  
2 A. Someone at Gradient was, I assume.  
3 Q. And ultimately, the conclusion there  
4 was that the asbestos from brakes was not a  
5 source or contributor to the cancer, correct?  
6 A. I don't recall.  
7 Q. The next one, "Weight-of-Evidence  
8 Analysis: Used Gradient's hypothesis-based  
9 weight-of-evidence approach to assess whether  
10 epidemiology, toxicology, and mechanistic  
11 evidence supports chlorpyr" --  
12 A. Chlorpyrifos.  
13 Q. Thank you.  
14 -- "being a neurobehavioral toxicant  
15 in humans at relatively low exposure levels."  
16 And what were the conclusions there?  
17 A. That the evidence indicates that  
18 chlorpyrifos is not a neurobehavioral toxicant  
19 at the low exposure levels that humans are  
20 exposed to.  
21 Q. "Bioavailability Assessment: Assessed  
22 whether animal, mechanistic, and epidemiological  
23 data are consistent with the nickel ion  
24 bioavailable model, which asserts that the  
25 carcinogenicity of nickel-containing substances

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1 is based on the bioavailability of the nickel  
2 ion at nuclear sites of target respiratory  
3 epithelial cells."  
4 And what conclusions did you reach  
5 there?  
6 A. That different forms of nickel have  
7 different bioavailability in the body, and so  
8 the conclusions were that the data regarding  
9 bioavailability do not support that certain  
10 forms of nickel are carcinogenic.  
11 Q. So in other words, the conclusion  
12 there was certain kinds of nickel can't cause  
13 cancer?  
14 A. Did you say can or can't?  
15 Q. Cannot.  
16 A. Yes.  
17 Q. "Toxicity Summary: Classified,  
18 summarized, and entered relevant studies of lead  
19 and bisphenol A into IUCLID database, a database  
20 for the intrinsic and hazard properties of  
21 chemical substances that companies can use to  
22 submit data under the Registration, Evaluation,  
23 Authorization, and Restrictions of Chemical  
24 legislation in Europe."  
25 What was the project there?

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1 A. So those were two completely separate  
2 projects with separate clients, one for lead,  
3 one for bisphenol A, and that is -- and these  
4 projects involved reviewing and writing short  
5 summaries of a large number of toxicology  
6 studies of either lead or bisphenol A, and then  
7 entering those summaries into a database that is  
8 part of chemical regulation in Europe.  
9 Q. And did you reach any conclusions with  
10 lead?  
11 A. No. Both of these studies were not to  
12 reach conclusions, they were simply to summarize  
13 the literature that is out there, but not to  
14 synthesize it and come to any conclusions about  
15 it.  
16 Q. Okay. So going back to what your core  
17 opinions in this case are, I understand that it  
18 is that TVT mesh is not cytotoxic in vivo, and  
19 that the weight of the evidence, according to  
20 you, is that it is not cytotoxic in humans, is  
21 that correct?  
22 A. Yes.  
23 Q. And you said there is evidence of  
24 cytotoxicity in vitro, correct?  
25 MR. HUTCHINSON: Object to form.

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1 A. There is some evidence of potential  
2 cytotoxicity in vitro.  
3 BY MR. ORENT:  
4 Q. Now, in terms of your final opinion,  
5 which is the weight-of-evidence, is that TVT is  
6 not cytotoxic in humans. Does that rely upon  
7 the foundation of human clinical evidence?  
8 A. In part, yes.  
9 Q. Does it rely on your review of in vivo  
10 cytotoxicity studies?  
11 A. In part, yes.  
12 Q. And does it rely upon your evaluation  
13 of in vitro studies?  
14 A. In part, yes.  
15 Q. Is there anything else that it relies  
16 upon?  
17 A. The position statements from different  
18 medical societies.  
19 Q. Anything else?  
20 A. Just general toxicology principles.  
21 Q. Okay. Anything else?  
22 A. I don't think so.  
23 Q. Okay. Now, Gradient, this is a lab,  
24 right?  
25 A. Gradient?

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1 Q. Yes.  
2 A. No.  
3 Q. Do they have lab facilities?  
4 A. No, we don't.  
5 Q. Do you have, if a project calls for  
6 it, the ability to do your own testing?  
7 A. No. We would have to find a contract  
8 lab to do the testing.  
9 Q. And did you inquire about doing any of  
10 your own cytotoxicity testing?  
11 A. No.  
12 Q. How about any of your own in vitro  
13 testing?  
14 A. No.  
15 Q. So I want to start with where you  
16 began in your report on your evaluation of the  
17 in vivo studies. And I think it may be easier  
18 here, we're going to switch between sections,  
19 and really to switch and go right back to data  
20 Table A.1.  
21 If we look at A.1, first of all, did  
22 you review each and every one of the  
23 cytotoxicity studies cited in Table A.1?  
24 A. Yes.  
25 Q. Did you personally review them all



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1 before completing this data table?

2 A. Probably not in their entirety, but

3 yes.

4 Q. How about Table A.2, In Vitro

5 Cytotoxicity - the Agarose Overlay. Did you

6 read all of those before creating that data

7 table?

8 A. Before or during, yes.

9 Q. Now, would you agree with me that the

10 first study in A.1, Study ID M83-184, that is

11 not a -- that is not a -- strike that.

12 That's a suture study, correct?

13 A. Yes.

14 Q. That did not involve the same mesh

15 used in TVT, correct?

16 A. No, it is the same Prolene mesh that

17 is used in TVT; however, it was not taken from a

18 TVT device.

19 Q. Well, I guess that's my question. Was

20 it taken from a sheet of Prolene, or was it a

21 Prolene suture?

22 A. It was a Prolene suture.

23 Q. Okay. So I want to be very specific

24 with the terms. When I'm going to say mesh, I'm

25 going to refer to the sheet of mesh, or I'll try

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1 and be clear.

2 But this whole study that concluded

3 that it was not cytotoxic, had no cytotoxicity,

4 that was a suture study, correct?

5 A. Yes.

6 Q. The next one dated 8/22/1988, that

7 also is a suture study, correct?

8 A. Yes.

9 Q. The next one, 6/12/1997, that is a --

10 actually that's a polypropylene mesh, correct?

11 A. Yes.

12 Q. That's not Prolene, correct?

13 A. I'm not sure. I would have to

14 double-check the study.

15 Q. Well, for example, if you look later

16 on --

17 A. Actually it should be, because it's

18 testing different portions of the device such as

19 the needle, the heat-shrink tubing, the sheath,

20 so actually I do believe the mesh is Prolene, it

21 just states polypropylene in this table.

22 Q. Okay. That's different -- and that's

23 a different way of stating it than you typically

24 state it here; normally you deviate between PP

25 and Prolene, correct?

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1 A. Yes.

2 Q. At least that's how I've read your

3 data table.

4 A. Yes.

5 Q. And this particular study found marked

6 cytotoxicity with the polypropylene portion of

7 the Prolene mesh, correct?

8 MR. HUTCHINSON: Object to form.

9 A. With the mesh, yes, but that is

10 Prolene mesh.

11 BY MR. ORENT:

12 Q. And found marked cytotoxicity,

13 correct?

14 A. Yes.

15 Q. The next one is the Sterile Ulmsten

16 device. And do you know what the difference

17 between the Ulmsten device is and the TVT?

18 A. Yes, I believe they are the same

19 thing.

20 Q. Do you know, do they use the exact

21 same Prolene mesh at the time it was still

22 called the Ulmsten device, as opposed to when it

23 later became the TVT?

24 A. I'm not sure.

25 Q. Did you investigate that to determine

Page 65

1 whether or not it was the same mesh that was

2 marketed in the United States?

3 A. I think I did, but I can't remember.

4 Q. Now, the next one is the Sterile

5 Ulmsten device, correct?

6 A. Yes.

7 Q. And the mesh there was found by

8 Dr. Barbolt to be severity cytotoxic, correct?

9 A. Yes.

10 Q. And the next two, the NAMSA studies,

11 1987a and "b", those used raw polypropylene

12 meshes, but those are not -- those are not

13 Prolene, correct?

14 MR. HUTCHINSON: I'm sorry, Counsel,

15 can you tell me where you are?

16 MR. ORENT: Sure, 7/29/97, raw

17 polypropylene mesh, noncytotoxic, NAMSA 1997a.

18 A. No, they are Prolene mesh.

19 BY MR. ORENT:

20 Q. They are.

21 Okay. And the next one, sterile

22 polypropylene mesh of TVT device, that found

23 moderate cytotoxicity, correct?

24 A. Yes.

25 Q. And then the next one, polypropylene



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1 mesh from TVT device made with low temperature  
2 HST, severe cytotoxicity, correct?  
3 A. Yes.  
4 Q. Polypropylene from the finished TVT  
5 device, slight cytotoxicity, correct?  
6 A. Yes.  
7 Q. And then it went on to find ELTDP  
8 noncytotoxic, Santonox R, severe cytotoxic, and  
9 Procol LA-10, severe cytotoxicity, is that  
10 correct?  
11 MR. HUTCHINSON: Object to form.  
12 A. Yes, although the severe cytotoxicity  
13 for Santonox R was only at the higher  
14 concentration of 3 milligrams per milliliter,  
15 but not at the lower concentration of  
16 0.2 milligrams per milliliter.  
17 BY MR. ORENT:  
18 Q. Now, at the bottom there's a "d" and  
19 an "e", and those refer back up to the top to  
20 the PSE Accession No. 97-0174 and PSE Accession  
21 No. 97-0128, and those say that the documents  
22 were unavailable.  
23 A. Right.  
24 Q. So does that mean you didn't have  
25 these studies available to you when you drafted

Page 67

1 this report?  
2 A. It means I did not have the study  
3 reports; however, I had other documentation  
4 about the results.  
5 Q. So just to be clear, you didn't have  
6 the raw data for "d" and "e", correct?  
7 A. Correct.  
8 Q. And for "c", which would be Accession  
9 No. -- I must be missing it?  
10 A. It's in the Conclusion column.  
11 Q. Oh, there. "PE sheath -  
12 Noncytotoxic," it says "Discrepancy between  
13 references."  
14 What does that mean?  
15 A. That means that in one reference it  
16 labeled the result as noncytotoxic, but I think  
17 somewhere else it may have labeled the result as  
18 slight cytotoxicity, which still indicates that  
19 it's not cytotoxic.  
20 Q. Now, for each of these studies that  
21 you rely on in this table, did you go through  
22 and re-review the raw data in forming your  
23 conclusions?  
24 A. Yes.  
25 Q. And on any of these, do your

Page 68

1 conclusions differ in any way between what the  
2 author found and what you've read here?  
3 A. No.  
4 Q. Did you look at the original  
5 photomicrographs of the explanted material --  
6 excuse me, any of the photomicrographs of any of  
7 the tests, the elution studies, to determine and  
8 verify the written findings?  
9 MR. HUTCHINSON: Object to form.  
10 A. No.  
11 BY MR. ORENT:  
12 Q. Table A.2. You'd agree, again, that  
13 there are tests here that show that there's  
14 marked cytotoxicity with regard to the mesh?  
15 MR. HUTCHINSON: Object to form.  
16 A. Yes, one study does note marked  
17 cytotoxicity.  
18 BY MR. ORENT:  
19 Q. Okay. And again, you note with a "c"  
20 that at least one of these studies was not  
21 available to you, and you're relying upon some  
22 other document to form the basis of your  
23 opinion, is that right?  
24 A. Yes.  
25 Q. As you sit here today, can you tell me

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1 what specific document you rely on for that  
2 opinion here?  
3 A. It would be the -- so this would be  
4 for the study PSE Accession No. 97-0128, and so  
5 in the Reference column for that study, because  
6 I did not have the raw data, the references  
7 listed in that column would be those that I  
8 relied on for the results of this study.  
9 Q. Okay. If we go to the Implantation  
10 Studies next, I'm just going to go in order,  
11 3/10/64, those are sutures, correct?  
12 A. Yes.  
13 Q. They're not Prolene, correct?  
14 A. Correct.  
15 Q. 7/25/64, sutures, polypropylene, but  
16 not Prolene, correct?  
17 A. Correct. Well, the study report does  
18 not refer to them as Prolene, it only refers to  
19 them as polypropylene.  
20 Q. Is it fair to say that when you say  
21 something is Prolene it is actually Prolene?  
22 For example, beginning on 5/20/71, it says  
23 "Prolene suture," and any reference that just  
24 say "PP suture" just mean polypropylene suture?  
25 A. Yes. For the sutures, yes, that's

Page 70

1 correct.  
2 Q. And would you agree with me that all  
3 of the studies listed on Page 3 are suture  
4 studies?  
5 A. Yes.  
6 Q. Would you agree with me that all of  
7 the studies cited on Page 4 are suture studies?  
8 A. Yes.  
9 Q. Okay. The top one on Page 5, that's a  
10 suture study as well?  
11 A. Yes.  
12 Q. Okay. The next study is a 10/21/1973  
13 study of Prolene mesh and Marlex mesh, correct?  
14 A. Yes.  
15 Q. Are all -- in your opinion, are all  
16 polypropylenes the same?  
17 A. Polypropylene is polypropylene. But I  
18 would not say all polypropylene meshes are the  
19 same.  
20 Q. In terms of the cytotoxicity, are all  
21 polypropylenes the same?  
22 MR. HUTCHINSON: Object to form.  
23 A. I don't know. I didn't look at  
24 different -- at a large number of polypropylene  
25 products.

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1 BY MR. ORENT:  
2 Q. Well, this one is a 1973, it looks at  
3 Prolene mesh and Marlex mesh, correct?  
4 A. Yes.  
5 Q. And do you believe that the results  
6 for Prolene and the results for Marlex can be --  
7 that in terms of evaluation of the data you can  
8 draw common inferences from the findings? You  
9 treat them as the same for purposes of reviewing  
10 this study?  
11 MR. HUTCHINSON: Form.  
12 A. No.  
13 BY MR. ORENT:  
14 Q. The next one is 6/16/1999, it's a rat  
15 study, and the TVT mesh itself found a minimal  
16 to moderate cytotoxic reaction, is that correct?  
17 A. Only at seven days after implantation,  
18 yes.  
19 Q. Okay. And then minimal to mild?  
20 A. At 14 days, yes.  
21 Q. At 14 days.  
22 And then a mild cytotoxic reaction at  
23 28 days, correct?  
24 A. Yes.  
25 Q. Polypropylene showed minimal to

Page 72

1 moderate at seven days, correct?  
2 A. Yes.  
3 Q. Minimal to mild at 14 days?  
4 A. Yes.  
5 Q. Mild at 28 days?  
6 A. Yes.  
7 Q. And that's a rat, correct?  
8 A. Rat study, yes.  
9 Q. PSE Accession 99-0115 dated 4/6/2000,  
10 that's a rat study, correct?  
11 A. Yes, it is.  
12 Q. And polypropylene mesh and  
13 polypropylene mesh with triclosan, was a gluteal  
14 muscle study, and it found a minimal to moderate  
15 reaction, correct?  
16 A. Yes. Although that should say Prolene  
17 mesh. Both the mesh and the mesh with triclosan  
18 were Prolene.  
19 Q. Okay. And the polypropylene, a  
20 subcutaneous rat test found that there was a  
21 minimal to mild response in rats on 7/12/2001,  
22 is that right?  
23 A. Yes, with Prolene mesh.  
24 Q. Then we look at Prolene mesh in 2002,  
25 and there was a mild to moderate response at

Page 73

1 seven days, minimal to moderate at 14 days, mild  
2 to moderate at 28 days, and minimal to moderate  
3 at 14 and 28 days, is that right?  
4 A. Yes.  
5 Q. And then subcutaneously we see minimal  
6 to moderate at seven days, minimal to mild at  
7 seven days, minimal to mild at 14 days, minimal  
8 to moderate at 28 days, and minimal to mild at  
9 28 days, is that right?  
10 A. Yes.  
11 Q. Now, all these studies are rat  
12 studies, correct?  
13 A. Which studies?  
14 Q. I'm sorry. The ones that actually --  
15 focusing on Page 5 and 6, actually they either  
16 involve rats or rabbits, correct?  
17 A. The studies with mesh, yes.  
18 Q. Okay. And in making your decision  
19 on -- on forming your opinions on cytotoxicity,  
20 you actually only looked at five studies  
21 involving mesh, correct?  
22 MR. HUTCHINSON: Object to form.  
23 Mischaracterizes the testimony.  
24 A. I only looked at, yes, five in vivo  
25 studies in animals of the Prolene mesh, yes.

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1 BY MR. ORENT:  
2 Q. And on those particular studies --  
3 well, first of all, did you do anything to  
4 verify that Ethicon had given you every single  
5 in vivo study that it had in its possession?  
6 A. No, I didn't.  
7 Q. Do you know, for example, whether or  
8 not Ethicon had dog studies available to it with  
9 the actual Prolene mesh?  
10 A. No, I don't.  
11 Q. Do you know whether it had sheep  
12 studies available to it with the actual Prolene  
13 mesh?  
14 A. No.  
15 Q. Would you have wanted to see any dog  
16 studies related to the Prolene mesh?  
17 A. It would depend on what type of study  
18 it was.  
19 Q. If we're talking in vivo studies,  
20 implantation studies?  
21 A. In vivo implantation study, if it  
22 evaluated endpoints that could inform whether it  
23 was cytotoxic, yes.  
24 Q. And would the same be true for sheep  
25 studies?

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1 A. Yes.  
2 Q. Now, as you sit here today, do you  
3 have an opinion as to what type of cytotoxic  
4 information can be gleaned in the quality of  
5 information between a rat study and a dog study?  
6 A. Can you repeat that?  
7 Q. Sure.  
8 As you sit here today, do you have --  
9 in your professional knowledge, education and  
10 training, are you able to quantify or qualify  
11 the differences between a dog study and a rat  
12 study in terms of the ingrowth, the types of  
13 collagen, and the comparability to humans  
14 between the different animal species?  
15 MR. HUTCHINSON: Object to form.  
16 A. No.  
17 BY MR. ORENT:  
18 Q. So as you sit here, Doctor, are you  
19 able to inform us as to how a rabbit, the tissue  
20 ingrowth and the macrophages and the whole  
21 process that's being observed in vivo, how the  
22 cellular structures compare to those of a human?  
23 MR. HUTCHINSON: Same objection.  
24 A. No.  
25 BY MR. ORENT:

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1 Q. As you sit here today, are you able to  
2 tell the jury exactly how one can compare a  
3 rabbit study to what might be anticipated in a  
4 human being, based on the various structures  
5 that you could see under a microscope?  
6 MR. HUTCHINSON: Same objection.  
7 A. No.  
8 BY MR. ORENT:  
9 Q. Same question with a dog, as you sit  
10 here today, in terms of the physical features  
11 that can be observed in an in vivo study under a  
12 microscope after a material is explanted, are  
13 you able to tell us how that would be  
14 anticipated to correlate with a human being?  
15 MR. HUTCHINSON: Same objection.  
16 A. No. I'm not a pathologist, so no.  
17 BY MR. ORENT:  
18 Q. Okay. And are you able to describe  
19 how the collagen is different between a dog and  
20 a human?  
21 A. No.  
22 Q. How about the scarification, are you  
23 able to determine how the scarification in a rat  
24 is different than the scarification in a human?  
25 A. No.

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1 Q. Are you able to determine how the  
2 scarification in a dog is different than in a  
3 human?  
4 A. No.  
5 Q. Do you know what reactive oxygenated  
6 species are, or ROS?  
7 A. In general, yes.  
8 Q. Do you know the difference in the  
9 release of ROS in a rat versus that of a human?  
10 A. No.  
11 Q. Okay. Do you have an understanding as  
12 to the difference between the release of ROS  
13 from a dog and a human?  
14 A. No.  
15 Q. How about a sheep and a human?  
16 A. No.  
17 Q. Do you have an understanding as to  
18 whether or not the quadruped nature of a rabbit  
19 makes any difference in evaluating the  
20 cytotoxicity at the site-specific locations that  
21 were done in these studies and what might be  
22 inferred from the human pelvis of a woman?  
23 A. No.  
24 Q. Do you have any understanding, as you  
25 sit here today, how the quadruped nature of a

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1 dog might impact the cytotoxicity in the  
2 locations implanted in these studies between  
3 that and the human pelvis?  
4 A. No.  
5 Q. As you sit here today, do you have any  
6 understanding as to how the quadriped nature of  
7 a rat would differ with the production of ROS  
8 and that in the human pelvis?  
9 MR. HUTCHINSON: Object to form.  
10 A. No.  
11 BY MR. ORENT:  
12 Q. In terms of physical structure and  
13 cytotoxicity, do you know how a skin test in a  
14 rat compares with results in a human pelvis?  
15 A. No.  
16 Q. Do you know how a skin test or  
17 under-skin test of a dog would compare with the  
18 human pelvis of a woman?  
19 A. No.  
20 Q. Do you know how the human pelvis of a  
21 woman would compare to a skin test on a sheep?  
22 A. No.  
23 Q. Okay. How about a pelvis-to-pelvis  
24 comparison, do you know how a pelvis test, the  
25 structural test of reactivity in a rat's pelvis

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1 would compare to that of a human's pelvis?  
2 A. No.  
3 Q. How about with regard to a dog, do you  
4 know how a dog's pelvis and the implantation in  
5 a dog's pelvis of a piece of mesh would compare  
6 in terms of the reaction to that in the human  
7 pelvis?  
8 MR. HUTCHINSON: Form.  
9 A. No.  
10 BY MR. ORENT:  
11 Q. And a sheep's pelvis, do you know how  
12 that would react between the implantation in a  
13 human's pelvis and -- excuse me, between the  
14 implantation of mesh in a sheep's pelvis and  
15 that in a human's pelvis, do you know how one  
16 would be able to correlate that reaction?  
17 MR. HUTCHINSON: Form.  
18 A. No.  
19 BY MR. ORENT:  
20 Q. Now, Doctor, in terms of  
21 predictability of in vivo studies, did you do  
22 any research to determine which animals would be  
23 the most appropriate to draw inferences from an  
24 in vivo specimen to a human subject?  
25 A. No.

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1 Q. Are you aware that the -- do you know  
2 who IUGA is?  
3 A. Yes.  
4 Q. IUGA is International Urogynecological  
5 Association, correct?  
6 A. Yes.  
7 Q. And are you aware that they have had  
8 roundtables?  
9 A. No.  
10 Q. Doctor, were you provided any  
11 information that suggests that the IUGA  
12 roundtable evaluated the data and made  
13 determinations as to the suitability of  
14 particular animals for in vivo testing?  
15 MR. HUTCHINSON: Object to form.  
16 A. No.  
17 BY MR. ORENT:  
18 Q. Were you aware that the IUGA  
19 recommended one specific type of animal for  
20 in vivo testing?  
21 A. No.  
22 Q. Doctor, would that have been  
23 information that you would have wanted to see in  
24 forming your opinions in this case?  
25 A. It would have been helpful.

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1 Q. Okay.  
2 A. But I don't know that it would have  
3 changed my conclusions.  
4 Q. Now, Doctor, what we talked about so  
5 far was the in vitro studies. In your report,  
6 if you go to Page 10, you make the statement  
7 "Ethicon has extensively investigated the safety  
8 of Prolene sutures and mesh, and the relevant  
9 cytotoxicity and the implantation studies are  
10 evaluated below."  
11 Doctor, what basis do you have to  
12 support the conclusion that Ethicon has  
13 extensively investigated the safety of Prolene  
14 sutures and mesh?  
15 A. All of the studies in my tables.  
16 Q. And what have you used as your  
17 comparator? So if that, for example, is  
18 extensive, how many other companies have you  
19 looked at to -- or what other comparison data  
20 did you look at to determine that that was  
21 extensive versus the alternative?  
22 A. I didn't do a comparative analysis.  
23 Q. Okay. So what basis do you have to  
24 say, other than saying that there's a number  
25 that's on that data table, whatever that is, 19



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1 studies, what basis do you have for saying that  
2 that is extensive?  
3 A. Just I would say the number of studies  
4 and the -- some of the documents from  
5 Dr. Barbolt, he did a risk assessment and  
6 cytotoxicity evaluations to show that Ethicon  
7 was definitely interested in understanding the  
8 safety of this material.  
9 Q. But we talked earlier that there were  
10 only five studies related to mesh, is that  
11 right?  
12 A. Five in vivo studies of Prolene mesh  
13 that I evaluated, yes.  
14 Q. Okay. Would you agree with me that  
15 you could not say Ethicon has extensively  
16 investigated Prolene mesh in vivo?  
17 MR. HUTCHINSON: Objection. Asked and  
18 answered.  
19 A. I would not -- sorry, can you ask that  
20 again?  
21 BY MR. ORENT:  
22 Q. Could I take and -- just take that  
23 statement that you have and just alter it a  
24 little bit to say Ethicon has extensively  
25 investigated the safety of Prolene mesh in vivo,

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1 as you sit here today, could you offer to a  
2 reasonable degree of scientific certainty that  
3 opinion?  
4 MR. HUTCHINSON: Object to form.  
5 A. That they have extensively  
6 investigated it, yes, in vivo.  
7 BY MR. ORENT:  
8 Q. So five studies is sufficient for you  
9 to call something extensive, is that correct?  
10 A. In the context of all the other data  
11 available, yes.  
12 Q. Five studies, correct?  
13 MR. HUTCHINSON: Objection. Asked and  
14 answered, Counsel. Move on.  
15 BY MR. ORENT:  
16 Q. Now, with regard to these studies,  
17 again, you have no comparator, correct?  
18 A. Right.  
19 Q. And have you ever worked with a  
20 company developing an implant to determine how  
21 many studies need to be done in vivo in order to  
22 reach a significant endpoint?  
23 A. No.  
24 Q. Do you have any basis to say, as you  
25 sit here today, from your experience, to say

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1 that five in vivo studies involving Prolene mesh  
2 meets industry standards?  
3 MR. HUTCHINSON: Object to form.  
4 A. I don't know the industry standards.  
5 BY MR. ORENT:  
6 Q. Okay. So wouldn't it be true that you  
7 really can't say, compared to what everybody  
8 else in the industry is doing, you cannot say  
9 that what Ethicon did here was extensive. Would  
10 you agree with that?  
11 MR. HUTCHINSON: Form.  
12 A. My statement wasn't really comparing  
13 to the industry. It was just indicating that  
14 the total of the data, not just the in vivo  
15 studies, but the in vitro and the human clinical  
16 studies are together extensive.  
17 BY MR. ORENT:  
18 Q. Now, if hypothetically another  
19 company, let's say AMS, performed 50 in vivo  
20 studies prior to putting their product on the  
21 market, you would then not be able to say that  
22 Ethicon's five would be significant, or  
23 extensive, correct?  
24 MR. HUTCHINSON: Form.  
25 A. Not comparative to that, no.

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1 BY MR. ORENT:  
2 Q. Okay. Now, you read Dr. Barbolt's  
3 deposition, correct?  
4 A. Most of it.  
5 Q. And in your report, on Page 11, you  
6 state that the findings, and this is right above  
7 the 3.2 -- 3.1.2 area, you discuss Santonox R  
8 and Procol LA from Barbolt?  
9 A. Yes.  
10 Q. And you call them surfactants?  
11 A. Surfactants.  
12 Q. Surfactants. Okay.  
13 Now, do you know -- would you agree  
14 with me that the longer Procol LA is in the  
15 human body in a piece of mesh, the more likely  
16 it is to migrate?  
17 A. I don't know.  
18 MR. HUTCHINSON: Form.  
19 BY MR. ORENT:  
20 Q. Would you agree that Procol LA blooms  
21 to the surface?  
22 A. I have read that. Upon heating at  
23 high tem -- or heating the mesh, yes.  
24 Q. Do you know whether or not Procol LA  
25 blooms to the surface in the presence of



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1 reactive oxygenated species?  
2 A. I do not know that.  
3 Q. Do you know whether or not there are  
4 other factors in the in vivo environment or the  
5 in vitro environment which can cause Procol LA  
6 to bloom to the surface?  
7 A. No, I don't know.  
8 Q. Would it be fair to say to a  
9 reasonable degree of professional certainty you  
10 do not know of the other factors beyond heating  
11 that affect Procol LA?  
12 A. That affect its blooming to the  
13 surface?  
14 Q. Correct.  
15 A. Correct.  
16 Q. And likewise, beyond heating, you do  
17 not have any information as to what promotes  
18 Procol LA's migration away from the mesh into  
19 other cells except for heating, correct?  
20 MR. HUTCHINSON: Object to form.  
21 A. Correct, that's not within my area of  
22 expertise.  
23 BY MR. ORENT:  
24 Q. Okay. And your understanding about  
25 Procol LA is entirely taken from Dr. Barbolt's

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1 work, is that correct? Let me rephrase that.  
2 Your understanding of Procol LA and  
3 its reactivity to heat is entirely based upon  
4 Dr. Barbolt's deposition, is that correct?  
5 A. No. There were other documents where  
6 I saw discussion of the potential for Procol  
7 LA-10 to bloom to the surface.  
8 Q. Okay. Those were internal corporate  
9 documents, correct?  
10 A. I can't remember if they all were.  
11 It's possible.  
12 Q. Did you do a thorough comprehensive  
13 literature review of Procol LA prior to writing  
14 your report?  
15 A. One of my staff did some searching of  
16 Procol LA-10, and I don't believe he came up  
17 with anything in the peer-reviewed literature.  
18 Q. Did you develop, or did you -- would  
19 you agree that you're not an expert on Procol  
20 LA-10?  
21 A. Yes.  
22 Q. Now, when you say "with evidence  
23 indicating that the positive results are likely  
24 attributable to the surfactant additive Procol  
25 LA which migrates to the surface of the mesh

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1 when it is heated at sterilized temperatures,"  
2 you don't know, again, what other factors  
3 attribute to Procol LA's migration to the  
4 surface, correct?  
5 A. Correct.  
6 Q. You don't know what other factors  
7 might lead Procol LA to migrate into other  
8 tissue in the human body, correct?  
9 A. Correct.  
10 Q. Do you know what the LD50 is of Procol  
11 LA?  
12 A. No, I don't.  
13 Q. And just for the record, what's an  
14 LD50?  
15 A. It's the dose of a chemical at which  
16 50 percent of the animals exposed at that dose  
17 will die.  
18 Q. And do you know whether or not there's  
19 a dose-response curve that's been developed for  
20 Procol LA?  
21 A. I don't know.  
22 Q. Those are two areas, LD50 and  
23 dose-response, that are typically in the realm  
24 of a toxicologist, correct?  
25 A. Yes.

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1 Q. You say "While this additive was  
2 cytotoxic when it was applied directly to  
3 cultured cells, this does not replicate the  
4 conditions of TVT exposure in vivo; these  
5 results must be considered in relation to other  
6 data available when evaluating the potential  
7 cytotoxicity of the tested materials."  
8 Do you know, percentage-wise, on a  
9 percentage basis, over a ten-year period what  
10 percentage of the Procol LA that's in a piece of  
11 mesh originally will actually bloom to the  
12 surface and migrate?  
13 A. No, I don't.  
14 Q. So would you agree with me that you  
15 can't actually say that the culture cells won't  
16 get the same dose ultimately as the cells next  
17 to mesh over a ten-year period --  
18 MR. HUTCHINSON: Object to form.  
19 BY MR. ORENT:  
20 Q. -- from Procol LA?  
21 A. It's not likely that they will,  
22 because in vitro it's naked cells in a petri  
23 dish being exposed directly to this chemical,  
24 whereas in the body the mesh is on cells, but  
25 there, you know, is a circulatory system,

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1 there's many other things going on in vivo that  
2 the in vitro tests cannot replicate. So the  
3 dose of the Procol LA-10 is not comparable  
4 in vitro to in vivo.  
5 Q. Okay. Now, in terms of the actual  
6 amount released, I should talk in terms of  
7 release, as you sit here today, you cannot say  
8 that the amount of Procol LA released from mesh  
9 into the human body over a ten-year period is  
10 not the same quantity as that which was tested  
11 in the in vivo dish -- in vitro dish, correct?  
12 MR. HUTCHINSON: Form.  
13 A. I cannot say that, but I believe  
14 many -- several different concentrations were  
15 tested in vitro, but I do not know how they  
16 compare to the in vivo situation.  
17 BY MR. ORENT:  
18 Q. Okay. Now, we next talked about the  
19 in vivo studies that involved both mesh and  
20 non-mesh. In terms of the endpoints, was  
21 necrosis the only endpoint that you were looking  
22 for in terms of determining whether or not  
23 something was cytotoxic or not?  
24 A. No. It was the primary endpoint for  
25 cytotoxicity, but I also know that wound healing

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1 is -- or delayed wound healing can be an  
2 indication of cytotoxicity. So I was looking at  
3 the general tissue response, specifically  
4 necrosis, fibrosis, myofiber regeneration, and  
5 inflammation, but with necrosis being the most  
6 likely indicator of cytotoxicity.  
7 Q. Did you look for whether or not  
8 foreign body giant cells were present?  
9 A. No.  
10 Q. How about macrophages?  
11 A. No.  
12 Q. How about any cells indicating an  
13 acute foreign body reaction?  
14 A. No, just general inflammation.  
15 Q. How about scarification?  
16 A. Yes, the fibrosis.  
17 Q. Did you look at whether or not  
18 bridging fibrosis existed in each of these  
19 studies?  
20 A. Not specifically.  
21 Q. Do you know what bridging fibrosis is?  
22 A. No.  
23 Q. Okay. Do you know how dense the  
24 collagen was in areas where there was reported  
25 to be little cytotoxicity? In other words, if

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1 we're using scarification as a metric in these  
2 animal studies, focusing on the mesh five, what  
3 layer of scarification, what amount of  
4 scarification would be the difference between  
5 minimal and mild?  
6 MR. HUTCHINSON: Object to form.  
7 A. I don't remember. I would have to  
8 look that up.  
9 BY MR. ORENT:  
10 Q. Okay. Did you do an independent  
11 evaluation of each of the specimens and each of  
12 the findings to determine whether or not in  
13 terms of scarification it was consistent with  
14 what your own definition of, for example,  
15 extensive scarification might be, or minimal  
16 scarification, or something like that?  
17 MR. HUTCHINSON: Form.  
18 A. No. I'm not a pathologist, so I had  
19 to rely on the study authors.  
20 BY MR. ORENT:  
21 Q. Okay. So you relied, for each of  
22 those five studies, you relied upon the findings  
23 of the authors, correct?  
24 A. Yes.  
25 Q. And you yourself would not be

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1 qualified to do an in vivo study, correct?  
2 A. No.  
3 Q. And, in fact, that would go towards  
4 either a pathologist or a combination of  
5 physician and pathologist, correct?  
6 A. At least a pathologist.  
7 Q. Okay. And you can only go on the  
8 pathology reports that are provided to you about  
9 whether or not there's evidence of a particular  
10 finding or not, correct?  
11 A. Correct.  
12 Q. And so if something was not an  
13 endpoint that was specifically evaluated for,  
14 you couldn't say whether or not it was there or  
15 not there, you could only state something like  
16 there's no evidence presented of X, correct?  
17 MR. HUTCHINSON: Object to form.  
18 A. Well, these studies are supposed to  
19 look at several different things. And so, for  
20 example, these studies are supposed to look for  
21 necrosis. So if necrosis is not mentioned, I  
22 mean if the study has been done well, then that  
23 means that necrosis is not present.  
24 BY MR. ORENT:  
25 Q. Okay. Now, chronic inflammation, what

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1 is the marker that you use for the definition of  
2 chronic inflammation when reviewing these  
3 studies? Do you look at it in terms of the  
4 presence of foreign body giant cells?  
5 A. No.  
6 Q. Okay. Do you look at it in terms of  
7 the presence of bridging fibrosis?  
8 A. No. I look at it as the  
9 interpretation of the study authors to whether  
10 they saw chronic inflammation.  
11 Q. Okay. So this is -- when you write  
12 these paragraphs on Page 12 and 13, those are  
13 more or less summaries of the information that  
14 the study authors themselves presented, correct?  
15 A. Correct.  
16 Q. Okay. That's not your own independent  
17 evaluation of those particular studies, correct?  
18 MR. HUTCHINSON: Object to form.  
19 A. As far as looking at the pathology,  
20 correct.  
21 BY MR. ORENT:  
22 Q. Okay. And you're not reaching  
23 independent conclusions from what the authors  
24 reached in their findings, correct?  
25 A. No, not from the pathology, no.

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1 Q. You're summarizing the findings of the  
2 original authors?  
3 A. Yes.  
4 Q. Okay. The next thing that you do is a  
5 summary of the clinical evidence. You "did not  
6 identify any clinical studies in which  
7 cytotoxicity of TVT was the primary endpoint.  
8 However, multiple clinical studies show no  
9 evidence of cytotoxicity in women who have been  
10 surgically implanted with TVT."  
11 Did you do a comprehensive review of  
12 the literature regarding TVT?  
13 A. Not myself, no.  
14 Q. Did your team do a comprehensive  
15 literature review of the peer-reviewed medical  
16 literature on TVT?  
17 A. We didn't -- well, it depends on what  
18 you mean by "comprehensive." But no, I did not  
19 do literature searches to identify all of the  
20 studies.  
21 Q. Okay. For example, when I think of  
22 comprehensive literature review, I think of  
23 reviewing all of the case studies out there, all  
24 of the series, case series, all of the  
25 retrospective studies, all of the prospective

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1 studies, and randomized controlled trials.  
2 Would you agree that that makes up the  
3 comprehensive universe of what literature would  
4 look like, could look like?  
5 MR. HUTCHINSON: Object to form.  
6 A. Yes.  
7 BY MR. ORENT:  
8 Q. And so in terms of case studies, did  
9 you direct anyone on your team to perform a  
10 comprehensive search for all of the human case  
11 studies on TVT?  
12 A. No.  
13 Q. In terms of the work that you did, did  
14 you direct anyone on your staff to do a  
15 comprehensive search for all of the case series  
16 studies with TVT?  
17 A. No.  
18 Q. With regard to the work that you did,  
19 did you direct anybody to do a comprehensive  
20 search of all of the retrospective studies on  
21 TVT?  
22 A. No.  
23 Q. In terms of the work that you were  
24 doing, did you direct anybody to look for all of  
25 the prospective studies on TVT?

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1 A. No.  
2 Q. And in terms of the studies that you  
3 did, did you ask anyone to look at all of the  
4 randomized controlled trials available on TVT?  
5 A. No.  
6 Q. How about multicenter. You know what  
7 a multicenter study is, correct?  
8 A. Yes.  
9 Q. Means there's multiple hospitals doing  
10 the same procedure to essentially rule out the  
11 contribution of physician error as a -- or  
12 physician contribution to the result, correct?  
13 A. Yes.  
14 Q. It removes that as a confounding  
15 factor, true?  
16 A. Yes.  
17 Q. Did you do any, or ask for a  
18 comprehensive review of the randomized  
19 controlled multicenter studies to be done on  
20 TVT?  
21 A. No.  
22 Q. And to your knowledge, were any  
23 comprehensive reviews conducted on any of those  
24 areas that I just asked you about?  
25 A. No.

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1 Q. And would it be true to say that your  
2 opinions under 3.3 do not rely upon a  
3 comprehensive review of the literature as we've  
4 just described it?  
5 MR. HUTCHINSON: Object to form.  
6 Mischaracterizing the testimony, Counsel.  
7 A. The way you describe comprehensive,  
8 no.  
9 BY MR. ORENT:  
10 Q. Okay. And would you agree that you  
11 are not an expert on the peer-reviewed  
12 literature regarding the safety and efficacy of  
13 the TVT device?  
14 MR. HUTCHINSON: Object to form.  
15 A. Correct.  
16 BY MR. ORENT:  
17 Q. Okay. Now, the Nilsson study, that's  
18 a study that was provided to you by Ethicon, is  
19 that correct?  
20 A. It was, yes.  
21 Q. Okay. Now, were you aware that the  
22 original authors of that study began -- or the  
23 study that began 17 years earlier, the original  
24 named author had since passed away? Did you  
25 know that?

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1 A. No.  
2 Q. Okay. Well, Nilsson is ultimately the  
3 guy who took on the role of that.  
4 But were you aware that that series of  
5 studies that went over a 17-year period included  
6 provisions in the contract for those studies  
7 that payment would only be issued if no new  
8 complications were determined to be found in  
9 each of the interval periods?  
10 MR. HUTCHINSON: Form.  
11 A. No.  
12 BY MR. ORENT:  
13 Q. Would you question a study where the  
14 authors were paid to not find new adverse  
15 clinical outcomes?  
16 MR. HUTCHINSON: Form.  
17 A. Possibly.  
18 BY MR. ORENT:  
19 Q. Did Ethicon advise you that this study  
20 ultimately culminated in paying the authors more  
21 than \$2 million?  
22 A. No.  
23 MR. HUTCHINSON: Form.  
24 BY MR. ORENT:  
25 Q. Would that be information that you

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1 would have wanted to know?  
2 A. I don't think it would change my  
3 opinions.  
4 Q. Would the fact that this was a --  
5 well, let me ask you this.  
6 What's the prior study -- before the  
7 2013 cohort, when is the time prior, immediately  
8 prior to that that they looked at the study?  
9 How many years had passed? If this is 17 years,  
10 there was one at how many years?  
11 A. I can't remember.  
12 Q. Does 11 sound right to you?  
13 A. 10 or 11.  
14 Q. Okay. And between year 11 and year  
15 17, how many new complications were found?  
16 A. I can't remember. I'd have to look  
17 that up.  
18 Q. You would agree, though, that there  
19 were new complications found, weren't there?  
20 A. Actually I don't recall, but I don't  
21 believe any of them indicated cytotoxicity.  
22 Q. And would erosion indicate  
23 cytotoxicity to you?  
24 A. I don't know.  
25 Q. Do you know what erosion is?

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1 A. Is that -- not specifically.  
2 Q. Okay. Well, were you aware -- I  
3 looked at your -- I spent some time going over  
4 your material that we looked at, your reliance  
5 list, and I didn't see anything by  
6 Dr. Klosterhalfen. Do you know who  
7 Dr. Klosterhalfen is?  
8 A. No.  
9 Q. Do you know who Dr. Klinge is?  
10 A. Klinge?  
11 Q. Klinge, K-L-I-N-G-E.  
12 A. No.  
13 Q. Were you aware that Dr. Klosterhalfen  
14 and his group had evaluated from the 1990s  
15 forward thousands of mesh pieces, mesh explants,  
16 and published on their findings?  
17 A. No.  
18 Q. Were you aware that -- would that be a  
19 line of evidence that you would want to see in  
20 making cytotoxicity determinations in terms of  
21 what pathologists were finding inside human  
22 explants?  
23 MR. HUTCHINSON: Object to form.  
24 A. If they were reporting clear evidence  
25 of cytotoxicity, yes.



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1 BY MR. ORENT:  
2 Q. Okay. And did you do a comprehensive  
3 search of prepared reviewed literature for mesh  
4 excisions, and pathology of mesh, those sort of  
5 things?  
6 A. No.  
7 Q. Would you agree with me that in  
8 assessing the human cytotoxicity of mesh that an  
9 understanding of human pathology and the human  
10 in vivo response is more important than  
11 understanding the animal in vivo response?  
12 MR. HUTCHINSON: Form.  
13 A. It is more relevant to the question.  
14 However, you cannot simply insert mesh into a  
15 woman to see what happens and to evaluate  
16 cytotoxicity, you can only go by the studies  
17 that have been conducted on women whose doctors  
18 recommend that they have this procedure for the  
19 benefits of the procedure. So you can only look  
20 at those women once they have had the procedure  
21 and look for evidence of adverse effects, such  
22 as cytotoxicity.  
23 BY MR. ORENT:  
24 Q. Now, do you know what the universe of,  
25 for example -- strike that.

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1 Why might a woman with a TVT device  
2 have that device explanted?  
3 A. I'm not a doctor, but I suppose if it  
4 was giving her complications.  
5 Q. Specifically what type of  
6 complications?  
7 MR. HUTCHINSON: Objection. Counsel,  
8 this is outside the bounds of her report.  
9 A. I'm sorry.  
10 BY MR. ORENT:  
11 Q. Are there particular complications  
12 that you would expect to see that evidence  
13 cytotoxicity?  
14 A. Necrosis, and impaired wound healing.  
15 Q. And do you know what the peer-reviewed  
16 medical literature reports in terms of necrosis  
17 in individuals implanted with TVT?  
18 A. Among the studies I reviewed, necrosis  
19 was not mentioned as an endpoint.  
20 Q. Did you specifically look to the  
21 peer-reviewed literature, that vast universe of  
22 case studies, case series, retrospective and  
23 prospective, as well as RCTs and multi-centered  
24 studies, did you specifically look for necrosis  
25 in any of those?

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1 A. I believe I did a search of TVT and  
2 cytotoxicity, and did not find any in the --  
3 anything in the peer-reviewed literature.  
4 Q. So I'm a lawyer, when I do research,  
5 it's a big part of what I do, I take the term  
6 that I want and I put a little circle around it  
7 and I draw all these crazy lines, almost like a  
8 little sun, I think of all the different  
9 synonyms for the word that I'm looking for. Did  
10 you do that same thing with cytotoxicity and  
11 TVT?  
12 MR. HUTCHINSON: Object to form.  
13 A. I believe I did after the literature  
14 search.  
15 BY MR. ORENT:  
16 Q. Okay. So what terms did you use?  
17 A. Necrosis, and wound healing.  
18 Q. And how many articles on wound healing  
19 problems with mesh did you find?  
20 A. Well, no, I didn't do a literature  
21 search with that. Just to come to my opinions,  
22 I evaluated whether there was impaired wound  
23 healing such as in the in vivo studies, and took  
24 note of it in the clinical studies that I  
25 reviewed as well.

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1 Q. I see.  
2 So you didn't actually search PubMed,  
3 for example, for necrosis, or for delayed wound  
4 healing, is that correct?  
5 A. Right.  
6 Q. Okay. If I went on PubMed and did  
7 those searches, do you have any idea how many  
8 articles I would find?  
9 A. No.  
10 Q. Do you know what the most common  
11 complication associated with the TVT device is?  
12 A. No.  
13 Q. Do you know whether or not the most  
14 common complication of TVT experienced in women  
15 correlates at all with cytotoxicity?  
16 A. No.  
17 Q. One of the documents that you reviewed  
18 was an Ethicon summary of literature, correct?  
19 A. What type of literature?  
20 Q. The Ethicon 2013 conducted a clinical  
21 review of 152 randomized controlled trials.  
22 A. Yes.  
23 Q. Did you do anything to verify the  
24 comprehensivity of that?  
25 A. No, I just based it on what they



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1 stated in this report.  
2 Q. So Ethicon still sells TVT, right?  
3 A. As far as I know.  
4 Q. They make money by it, right?  
5 A. I'm sure they do.  
6 Q. Okay. Make a lot of money, probably?  
7 A. I don't know.  
8 MR. HUTCHINSON: Objection. Outside  
9 the scope of her report, Counsel.  
10 BY MR. ORENT:  
11 Q. And it's in their vested interest to  
12 have a body of literature that supports keep  
13 selling this device, right?  
14 MR. HUTCHINSON: Same objections.  
15 Foundation.  
16 A. I suppose.  
17 MR. HUTCHINSON: We don't want you to  
18 guess or speculate. I think he'll admit that.  
19 THE WITNESS: Okay.  
20 BY MR. ORENT:  
21 Q. Now, you did nothing to verify the  
22 accuracy of that literature review, is that  
23 correct?  
24 A. Correct.  
25 Q. Now, in your report you talk about

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1 weight of the evidence approach.  
2 A. Yes.  
3 Q. And you use Bradford Hill as an  
4 example, right?  
5 A. Yes.  
6 Q. And really when you think about  
7 Bradford Hill, you look at causality; that is,  
8 can this substance cause this, right?  
9 A. Right.  
10 Q. And you narrowly defined the issue of  
11 is TVT cytotoxic here, right? That's how you  
12 defined the issue?  
13 A. Yes.  
14 Q. Now, it seems to me you -- the lines  
15 of evidence that you cite in your report are  
16 3-fold, correct?  
17 A. Yes.  
18 Q. They're in vitro studies. And we've  
19 discussed those, correct?  
20 A. Somewhat, yes.  
21 Q. And the in vitro studies are -- do  
22 show that there is some cytotoxicity, correct?  
23 A. Yes, in vitro.  
24 Q. Okay. And we discussed in vivo,  
25 correct?

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1 A. Yes.  
2 Q. And we discussed that there are only  
3 five in vivo studies conducted by Ethicon,  
4 correct?  
5 A. That I'm aware of, yes.  
6 Q. That you're aware of.  
7 And you don't know how to correlate  
8 those with the human experience, correct?  
9 MR. HUTCHINSON: Object to form.  
10 A. Not from a pathology standpoint.  
11 BY MR. ORENT:  
12 Q. Okay. And we discussed the third,  
13 which would be the literature, correct?  
14 A. Human literature?  
15 Q. Human literature, correct?  
16 A. Yes.  
17 Q. And that you didn't do a comprehensive  
18 literature review, correct?  
19 MR. HUTCHINSON: Object to form.  
20 A. Correct.  
21 BY MR. ORENT:  
22 Q. And you didn't look at pathology,  
23 correct?  
24 A. Right. I don't have expertise in  
25 that.

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1 Q. Now, when you do Bradford Hill, you  
2 want to look at all available lines of evidence.  
3 So, for example, you would look at everything  
4 from large scale epidemiological studies, right?  
5 A. Yes, if they're available.  
6 Q. To human case studies, to human  
7 series, correct?  
8 A. We don't always look at those in  
9 toxicology. The weight-of-evidence analyses  
10 that I've done, including those on Exhibit 9,  
11 the epidemiology studies would be more  
12 informative than the case reports.  
13 Q. You do look at various types of cell  
14 studies, cultures, and things like that, right?  
15 A. Yes.  
16 Q. You look at some animal studies, where  
17 available, correct?  
18 A. Yes.  
19 Q. And then you look at all of the  
20 evidence together, and you form an opinion,  
21 correct? Is that essentially how Bradford Hill  
22 works?  
23 A. Well, that's how weight-of-evidence  
24 works, yes. And you can use the Bradford Hill  
25 considerations within that to tie the evidence

Page 110

1 together, yes.  
2 Q. Would you agree with me that really in  
3 this case your opinions rest solely on your  
4 interpretation of the mesh in vivo studies?  
5 MR. HUTCHINSON: Object to form.  
6 A. No.  
7 BY MR. ORENT:  
8 Q. Even though we've shown that your  
9 literature review was not comprehensive?  
10 MR. HUTCHINSON: Objection.  
11 Mischaracterizes testimony.  
12 I don't know what literature review  
13 you're talking about, Counsel. I don't think  
14 the witness does either.  
15 BY MR. ORENT:  
16 Q. And even though we have discussed  
17 that, in fact, in vitro this mesh is cytotoxic,  
18 correct?  
19 A. Yes. But in vitro results do not  
20 predict, necessarily predict what's going to  
21 happen in vivo.  
22 Q. Now, part of being a neutral scientist  
23 is evaluating both sides of the argument,  
24 correct?  
25 A. Yes.

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1 Q. And you saw the reports of Dr. Elliott  
2 and Dr. Rosenzweig, correct?  
3 A. Yes, I did.  
4 Q. And do you know how many articles,  
5 medical articles, Dr. Elliott reviewed prior to  
6 forming his opinions in this case?  
7 A. No, I don't.  
8 Q. Do you know how much pathology and how  
9 many pathology reports he reviewed in terms of  
10 forming his opinion?  
11 A. No, I don't.  
12 Q. Do you know how many human patients he  
13 saw with mesh complications prior to forming his  
14 opinions?  
15 A. No, I don't.  
16 Q. Same with Dr. Rosenzweig, do you know  
17 how many patients he saw with TVT complications  
18 prior to forming his opinion?  
19 A. No.  
20 Q. Do you know how much pathology or  
21 pathology reports he looked at prior to forming  
22 his opinions?  
23 A. No.  
24 Q. Do you know what body of literature he  
25 reviewed prior to forming those opinions?

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1 A. No.  
2 Q. Do you know what internal corporate  
3 documents Dr. Elliott and Dr. Rosenzweig looked  
4 at in terms of forming their opinions?  
5 A. No.  
6 Q. Now, in terms of Dr. Iakovlev, how  
7 many of his reports have you reviewed?  
8 A. Just one.  
9 Q. Do you know whether or not  
10 Dr. Iakovlev has actually written in other  
11 reports about necrosis?  
12 A. No, I don't.  
13 Q. Do you know whether or not  
14 Dr. Iakovlev has formed opinions on bridging  
15 fibrosis?  
16 A. No.  
17 Q. Do you know whether or not he has  
18 formed opinions on other aspects of interactions  
19 between mesh and human tissue that might be  
20 considered cytotoxic?  
21 A. No, but he didn't report any  
22 cytotoxicity in this particular report.  
23 Q. And have you read Dr. Iakovlev's  
24 peer-reviewed published articles on mesh?  
25 A. No.

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1 MR. ORENT: Why don't we take a short  
2 five minute break.  
3 THE VIDEOGRAPHER: Going off the  
4 record. The time is 12:09.  
5 (Whereupon, a recess was taken.)  
6 THE VIDEOGRAPHER: Back on the record.  
7 The time is 12:31.  
8 BY MR. ORENT:  
9 Q. I asked you this question with regard  
10 to in vivo, but let me ask it with in vitro.  
11 You yourself, do you do in vitro  
12 testing?  
13 A. No.  
14 Q. Now, if we look at, in your report,  
15 data Table A.2 -- I'm sorry, A.3, I notice that  
16 there's no footnotes there, and there's a whole  
17 host of footnotes on the shorter A.1 and A.2.  
18 Why is it that there's no footnotes?  
19 A. I didn't think there was anything  
20 necessary to footnote. The footnotes in Tables  
21 A.1 and A.2 were just clarifying whether they  
22 were ISO guideline studies.  
23 Q. Okay. A few other questions for you.  
24 With regard to your work at Gradient,  
25 you're not a principal, correct?

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1 A. Correct.

2 Q. Are you in line to be a principal?

3 A. Yes, I am.

4 Q. And at what point in your career, how

5 many more years, or when do you come up for

6 evaluation for becoming a principal?

7 A. Well, to become a principal at

8 Gradient, it's dependent upon how much revenue

9 you bring in.

10 Q. Okay. And what is the amount of

11 revenue that is considered enough to become a

12 principal?

13 A. It might be different for different

14 people, but I believe the general number is

15 100,000.

16 Q. Okay. Is that per year, or --

17 A. Yes.

18 Q. And do you reasonably believe that

19 you're going to become a principal this year, at

20 the end of the year, or next year?

21 A. This year, no.

22 Q. Now, with regard to the structure

23 here, do you have a principal who is your

24 supervisor?

25 A. No.

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1 Q. How does that work? Who is your boss?

2 A. Well, in a case like this where I'm

3 hired, I'm the boss.

4 Q. But in terms of structure within

5 Gradient, who do you report to?

6 A. Yes, I do have a manager who is a

7 principal here.

8 Q. And who is that?

9 A. His name is Kurt Herman.

10 Q. And does he evaluate your work at the

11 end of every year?

12 A. Yes.

13 Q. And in terms of the projects that you

14 take on, do you need to get Kurt's approval?

15 A. No.

16 Q. Do you need to get any sort of

17 corporate approval?

18 A. No. The only thing we do is we do a

19 confidentiality check before agreeing to do

20 work.

21 Q. And do you individually -- I know that

22 your billing rate is 265 an hour, is that right?

23 A. Yes.

24 And the last thing I said, I meant to

25 say a conflict of interest check, not a

Page 116

1 confidentiality check. Sorry.

2 Q. I understood that that's what you

3 meant.

4 A. Yes.

5 Q. Your rate is 265 an hour, correct?

6 A. Yes, it is.

7 Q. Do you directly receive any portion of

8 your billings?

9 A. Principals at Gradient do receive a

10 percentage of the revenue of projects that they

11 bring in.

12 Q. Okay. So in terms of this particular

13 project, since you're not technically a

14 principal yet, do you receive a percentage of

15 the total billings?

16 A. Yes.

17 Q. What's that percentage?

18 A. I actually don't know.

19 Q. Okay. And that's a percentage of not

20 just the work that you do, but the work that's

21 assigned out and billed under your project, is

22 that right?

23 A. I don't know.

24 Q. Do you know, is it greater or less

25 than 10 percent?

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1 A. I don't know.

2 Q. Okay. We just took what I thought was

3 going to be a short break, ended up being a

4 little bit longer. Did you have the opportunity

5 over the course of the break to talk to your

6 counsel?

7 A. Yes, I did.

8 Q. Did you talk about the substance of

9 your testimony?

10 A. Substance? We did talk about the

11 testimony.

12 Q. Okay. Did you review any documents?

13 A. No.

14 Q. Did you prepare questions that you

15 were going to be asked going forward?

16 A. I did not, no.

17 Q. Were you asked -- basically were you

18 told what questions you would be asked?

19 MR. HUTCHINSON: Objection. Counsel,

20 that's work product. Instruct the witness not

21 to answer.

22 BY MR. ORENT:

23 Q. Are you going to stand by that advice?

24 A. Yes.

25 Q. But you did talk about the substance

Page 118

1 of what we're discussing here today, correct?  
2 A. Some of it.  
3 MR. ORENT: Okay. All right. I'm  
4 going to maintain an objection to your last  
5 instruction on the record and reserve all my  
6 rights accordingly.  
7 Subject to that, I am done, and  
8 obviously also subject to my right to redirect.  
9 EXAMINATION  
10 BY MR. HUTCHINSON:  
11 Q. Dr. Prueitt, my name is Chad  
12 Hutchinson, I have the privilege of representing  
13 Ethicon and Johnson & Johnson.  
14 Walk us through your education,  
15 please.  
16 A. I received a bachelor of science  
17 degree in biology from Pacific Lutheran  
18 University. And then I received a Ph.D in  
19 molecular biology from the University of Texas  
20 Southwestern Medical Center at Dallas. Then I  
21 was a post-doctoral fellow at the National  
22 Cancer Institute for five years. Then a staff  
23 scientist at the Fred Hutchinson Cancer Research  
24 Center for one year.  
25 Q. And what did you do as a staff

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1 scientist?  
2 A. I managed and conducted studies  
3 investigating prostate cancer biomarkers.  
4 Q. Through the course of your education,  
5 experience, have you done toxicology work?  
6 A. Yes, I have.  
7 Q. And would that be reflected in your  
8 CV?  
9 A. Yes.  
10 Q. Would you tell the jury about your  
11 toxicology work, please?  
12 A. At the National Cancer Institute I  
13 studied the effects of smoking and nicotine on  
14 prostate cancer.  
15 Q. Anything else?  
16 A. No.  
17 Q. Are you board certified in anything,  
18 Dr. Prueitt?  
19 A. Yes, I'm board certified in  
20 toxicology.  
21 Q. What does it mean to be board  
22 certified in toxicology?  
23 A. So first it requires a certain  
24 combination of education and experience. For  
25 example, for someone with a Ph.D, it would

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1 require an additional three years of working  
2 toxicology experience, and then for a master's  
3 degree it would require seven years. And so  
4 that combination of education and experience  
5 qualifies you to take the exam to be board  
6 certified.  
7 So then I sat for an exam that is --  
8 that covers toxicology, every aspect of  
9 toxicology, very comprehensive exam, for a day  
10 and a half, and so I passed that exam. And then  
11 to keep my board certification, each year I have  
12 to do either -- well, I have to do a certain  
13 number of toxicology-related activities, such as  
14 attend conferences, publish papers, take  
15 courses, things like that.  
16 Q. And, Doctor, you mentioned publishing  
17 papers. Have you published any peer-reviewed  
18 journal articles regarding toxicology?  
19 A. Yes, I've published quite a few.  
20 Q. Are those reflected in the CV that the  
21 Plaintiffs' lawyer attached as Exhibit 1 to your  
22 deposition?  
23 A. Yes, they are all listed there.  
24 Q. And have you spoken about toxicology  
25 issues?

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1 A. Yes.  
2 Q. And that would be presentations in  
3 front of peers?  
4 A. Yes.  
5 Q. Are those references and presentations  
6 included in your CV that Plaintiffs' lawyer  
7 marked as Exhibit 1 to your deposition?  
8 A. Yes, they are.  
9 Q. I notice on your CV there's a Ph.D  
10 behind your name, is that correct?  
11 A. Yes.  
12 Q. What does that mean? What do you have  
13 a Ph.D in?  
14 A. My Ph.D is in molecular biology and  
15 human genetics.  
16 Q. And do you use that discipline in your  
17 field, in toxicology?  
18 A. Yes.  
19 Q. I also noticed behind your name  
20 D.A.B.T.. What does D.A.B.T. stand for?  
21 A. Diplomate of the American Board of  
22 Toxicology, so that's indicating my board  
23 certification.  
24 Q. Now, Dr. Prueitt, let's look at your  
25 expert report that's marked as Exhibit 1 to your



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1 deposition. Do you have that in front of you?

2 A. Yes.

3 Q. And turn with me, please, to Page 18

4 of your report.

5 Are you there?

6 A. Yes.

7 Q. And Page 18 lists reliance documents,

8 correct?

9 A. Yes.

10 Q. What are reliance documents?

11 A. These are the documents that I

12 reviewed, and some of which -- and some of them

13 I cited in my report, and so I reviewed these

14 and used them to come to my opinions.

15 Q. And, Dr. Prueitt, I'll represent to

16 you that there are 72 different documents under

17 this heading. Does that sound about right to

18 you?

19 A. It does. They're not numbered, so I

20 can't check, but that sounds right.

21 Q. You were asked questions about whether

22 you read all of these documents before beginning

23 your expert report. Do you recall that line of

24 questioning?

25 A. Yes.

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1 Q. And, Dr. Prueitt, I believe you

2 testified that you didn't read some of these

3 documents before you began your expert report,

4 is that right?

5 A. Correct.

6 MR. ORENT: Objection to form.

7 BY MR. HUTCHINSON:

8 Q. Let's talk about after you started

9 working on your expert report. Have you had an

10 opportunity to review all of the reliance

11 documents listed in Exhibit 1 to your

12 deposition?

13 A. Yes.

14 Q. And when did you do that?

15 A. After I started the report.

16 Q. Have you reviewed these documents

17 during the course and scope of your work on this

18 particular project?

19 MR. ORENT: Objection.

20 A. Yes.

21 BY MR. HUTCHINSON:

22 Q. And is that something that you as a

23 toxicologist would normally do in your practice?

24 A. Yes.

25 Q. Let's turn to Page 12 and 13 of your

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1 report, starting on Page 12, and let me know

2 when you're there.

3 A. I'm there.

4 Q. Section 3.2.1 is "The results from

5 in vivo implantation studies indicate no

6 cytotoxicity." Did I read that correctly?

7 A. Yes.

8 Q. Is this part of your report?

9 A. Yes.

10 Q. What does that mean?

11 A. That means that after I reviewed the

12 results of in vivo implantation studies of

13 Prolene sutures in mesh that I came to the

14 conclusions, based on those studies, that the

15 TVT device does not cause cytotoxicity in

16 in vivo animal studies.

17 Q. And for the benefit of the jury, what

18 is an in vivo animal study?

19 A. It's a study conducted in a whole

20 animal.

21 Q. What is an in vitro study?

22 A. That's a study conducted outside of a

23 whole animal in a closed system, such as in a

24 petri dish.

25 Q. Can you -- strike that.

Page 125

1 You were asked whether or not on

2 Page 12 and 13 of your report you summarized the

3 findings of original authors.

4 Do you remember that?

5 A. Yes.

6 Q. And is that what you did?

7 A. Yes.

8 MR. ORENT: Object.

9 BY MR. HUTCHINSON:

10 Q. Is that part of the weighted evidence

11 approach that you as a toxicologist use to reach

12 your opinions?

13 A. Yes, we commonly do that. We have to

14 rely on the study reports of others, the authors

15 of the studies that we review. We are not a

16 testing lab. This is what we do as

17 toxicologists in consulting.

18 Q. Is it common for a toxicologist such

19 as yourself to rely on work of other scientists?

20 A. Yes.

21 Q. Is that what you were doing here?

22 A. Yes.

23 Q. Dr. Prueitt, you were asked whether or

24 not you conducted a comprehensive review of all

25 human case studies, retrospective studies,



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1 prospective studies, and randomized control  
2 trials. Do you remember that line of  
3 questioning?  
4 A. Yes, I do.  
5 Q. Did you need to do that?  
6 A. No.  
7 Q. Why not?  
8 A. Because I reviewed -- I felt that I  
9 reviewed a sufficient number of studies to come  
10 to my conclusions. And as a toxicologist it's  
11 not something that we normally do to -- is  
12 review case studies. It's better to rely on  
13 epidemiology studies, because they actually will  
14 show whether there's a statistically significant  
15 effect of a chemical or treatment, whereas case  
16 studies do not show that.  
17 Q. Tell the jury what type of studies  
18 that you as a toxicologist relied on in reaching  
19 your opinions.  
20 A. I relied on in vitro cytotoxicity  
21 studies of Prolene mesh. I relied on in vivo --  
22 or the in vivo implantation studies of the  
23 Prolene mesh from TVT. I relied on suture  
24 studies of the Prolene sutures. And I relied on  
25 long -- or clinical studies with long-term

Page 127

1 follow-up of women who were implanted with TVT.  
2 Q. And what do those studies tell you as  
3 a toxicologist?  
4 MR. ORENT: Objection.  
5 A. All together the results of all of  
6 those studies indicate that the TVT mesh is not  
7 cytotoxic in vivo and is not cytotoxic -- or  
8 does not show evidence of cytotoxicity in  
9 humans.  
10 BY MR. HUTCHINSON:  
11 Q. Let's talk about the literature and  
12 the documents that you reviewed.  
13 Did you bring three notebooks with you  
14 here today?  
15 A. Yes, I did.  
16 Q. And marked as Exhibit -- was it 4 to  
17 your deposition?  
18 MR. ORENT: It's 3.  
19 BY MR. HUTCHINSON:  
20 Q. Marked as Exhibit 3 to your deposition  
21 is a document. Have you seen that document  
22 before?  
23 A. Yes.  
24 Q. Would you tell the ladies and  
25 gentlemen of the jury what Exhibit 3 represents?

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1 A. This represents all of the documents  
2 that I specifically cited in my report.  
3 Q. And did you review those documents  
4 that you specifically cited in your report?  
5 A. Yes, I did.  
6 Q. Can you give us an idea of how many  
7 documents there are?  
8 A. There are -- I cited 76 documents.  
9 Q. And did you bring those documents with  
10 you here today?  
11 A. Yes.  
12 Q. Dr. Prueitt, you testified earlier  
13 that you did not do a comprehensive literature  
14 review. Do you remember that?  
15 A. Yes.  
16 Q. What did you mean by that?  
17 A. I meant by his definition of  
18 comprehensive.  
19 Q. Who is "his"?  
20 A. Counsel.  
21 Q. For the Plaintiff?  
22 A. For the Plaintiff.  
23 Because I answered that question  
24 shortly after he described what he meant by  
25 comprehensive literature review, which included

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1 case studies and other types of studies that I  
2 did not rely on and do not normally rely on as a  
3 toxicologist.  
4 Q. And, Dr. Prueitt, I believe you  
5 testified earlier that you're not an expert on  
6 peer-reviewed literature about the safety and  
7 efficacy of TVT. Do you remember that  
8 testimony?  
9 A. Yes.  
10 Q. Do you need to be an expert on the  
11 peer-reviewed literature of that?  
12 A. Not to form opinions on whether TVT is  
13 cytotoxic.  
14 Q. And is that what you were asked to do  
15 in this case?  
16 A. Yes.  
17 Q. Is a generally accepted methodology of  
18 a toxicologist to review all of the safety and  
19 efficacy literature of a device when studying  
20 only cytotoxicity?  
21 MR. ORENT: Objection.  
22 A. No, and particularly not the efficacy.  
23 BY MR. HUTCHINSON:  
24 Q. Why not?  
25 A. Because that has no bearing on the

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1 potential cytotoxicity of the device.  
2 Q. Dr. Prueitt, walk us through the  
3 methodology that you used as a toxicologist to  
4 reach your opinions in this case.  
5 A. Okay. First I reviewed the documents  
6 that were given to me, the in vitro cytotoxicity  
7 studies, and the related documentation such as  
8 by Dr. Barbolt that discusses these studies.  
9 Also, the in vivo cytotoxicity studies that were  
10 provided for the sutures and the mesh, because I  
11 did not find any studies evaluating potential  
12 cytotoxicity of TVT or even Prolene in the  
13 peer-reviewed literature.  
14 Q. And then what did you do?  
15 A. And then I also looked at the --  
16 looked at clinical studies of TVT for -- with  
17 follow-up of ten years or more to look for  
18 potential adverse effects of TVT that might be  
19 related to cytotoxicity.  
20 Q. And what do those studies show,  
21 Dr. Prueitt?  
22 A. Those studies showed that there were  
23 no adverse effects specifically related to  
24 cytotoxicity in the women implanted with TVT.  
25 Q. Did those studies show any evidence of

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1 necrosis?  
2 MR. ORENT: Objection.  
3 A. Not that I saw, no.  
4 BY MR. HUTCHINSON:  
5 Q. And, Dr. Prueitt, as a toxicologist,  
6 what does necrosis tell you about cytotoxicity?  
7 A. It can be an indication of  
8 cytotoxicity. However, the presence of necrosis  
9 may not definitively indicate that the  
10 cytotoxicity occurred from the exposure, it  
11 could have been due to other complications, of  
12 the surgery itself, or if there was a -- some  
13 other type of adverse effect from the surgery,  
14 such as a large amount of inflammation. It  
15 could cause cells to die. There could be  
16 mechanical cell death from encountering the edge  
17 of the device, I would think.  
18 Q. Dr. Prueitt, I'll apologize if I  
19 interrupted you, but had you finished walking us  
20 through your methodology that's used in reaching  
21 your toxicology opinions?  
22 A. No.  
23 Q. Okay. What else did you do?  
24 A. Well, I didn't mention this -- all the  
25 types of studies that I reviewed and that I did

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1 a literature search and didn't find any other  
2 in vitro or in vivo studies, or clinical studies  
3 specifically related to cytotoxicity of TVT.  
4 But -- so then I laid out the in vitro and in  
5 vivo studies in the tables that are at the back  
6 of my report, and looked at all the evidence  
7 together, considered the relevance of in vitro  
8 results to the situation in vivo and in humans  
9 specifically, and then determined that, you  
10 know, the weight of the evidence should lean  
11 towards the in vivo studies and the clinical  
12 studies because those are the most relevant to  
13 humans. And those -- because those studies did  
14 not show evidence of cytotoxicity specifically  
15 from exposure to the TVT device, then I formed  
16 my conclusions.  
17 Q. And, Dr. Prueitt, is this the  
18 methodology that you used -- strike that.  
19 Is the methodology you used the  
20 generally accepted methodology employed by a  
21 toxicologist in reaching the opinions you  
22 reached in this case?  
23 MR. ORENT: Objection.  
24 A. Yes, it is. I've used it before, and  
25 my colleagues use it as well.

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1 BY MR. HUTCHINSON:  
2 Q. And, Dr. Prueitt, you mentioned  
3 earlier that you created some tables that are in  
4 Exhibit 1 to your deposition, is that correct?  
5 A. Yes.  
6 Q. And what do those tables tell us?  
7 A. The tables lay out the general  
8 methodology and the results of the in vitro and  
9 in vivo studies that I reviewed.  
10 Q. And, Dr. Prueitt, would that allow  
11 another scientist to repeat and verify your  
12 work?  
13 A. Yes. Another scientist could look at  
14 these tables, or they could make their own  
15 tables of these studies and use them to come to  
16 their conclusions.  
17 Q. Dr. Prueitt, did you search PubMed for  
18 necrosis and wound healing?  
19 A. No, I did not.  
20 Q. Did you need to do that?  
21 A. No, I did not need to do that to come  
22 to my opinions.  
23 Q. Why not?  
24 A. Because I felt that the clinical  
25 studies that I reviewed which had follow-up of

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1 ten years or more in women with the TVT device  
2 and did not show evidence of cytotoxicity were  
3 enough to help me reach my opinions. And also  
4 the presence of necrosis and wound healing  
5 difficulties may not necessarily be caused  
6 specifically by cytotoxicity.  
7 Q. Doctor, you testified earlier that  
8 some of the studies in vitro were positive. Do  
9 you remember that?  
10 A. Positive for cytotoxicity, yes.  
11 Q. Does the analysis stop there when  
12 reaching an opinion about cytotoxicity of a  
13 material?  
14 A. Absolutely not. You also have to --  
15 Q. Why not?  
16 A. Because results in vitro cannot be  
17 directly extrapolated to what will happen  
18 in vivo. You have to also evaluate in vivo  
19 studies and human studies if they are available.  
20 Q. Why can those results not be  
21 extrapolated from a scientific standpoint?  
22 A. Because those results were based on  
23 putting either an elution from the mesh or the  
24 mesh itself directly on a single cell type, and  
25 with -- so it's an artificial situation, it's

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1 not anywhere near the same as what's in the  
2 body. And so in vitro tests like this are only  
3 used as an initial screening test, they are  
4 never used to show a definitive affect.  
5 Q. Dr. Prueitt, I want to go back to the  
6 methodology that you used to render your  
7 opinions. Have you used the methodology that  
8 you used here before?  
9 A. Yes.  
10 Q. Have your colleagues used the same  
11 methodology before today?  
12 A. Yes.  
13 Q. Why did you use this type of  
14 methodology?  
15 A. Because it is the standard methodology  
16 for evaluating potential adverse effects and  
17 causation that's used by toxicologists both in,  
18 you know, a regulatory -- by regulatory  
19 toxicologists, as well as in the peer-reviewed  
20 literature.  
21 Q. Dr. Prueitt, you were asked by the  
22 Plaintiffs' lawyer whether or not you did the  
23 in vitro or in vivo testing. Do you remember  
24 that line of questioning?  
25 A. Yes.

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1 Q. Dr. Prueitt, do you need to be the one  
2 who physically does the in vitro or in vivo  
3 testing to reach sound toxicology opinions in  
4 this case?  
5 A. No.  
6 Q. Why not?  
7 A. Because I can review the studies and  
8 see the results and interpret them based on the  
9 study. I don't have to be, you know, the one  
10 actually conducting the study to be able to  
11 interpret it.  
12 MR. HUTCHINSON: I don't have any more  
13 questions right now. Thank you for your time,  
14 Dr. Prueitt.  
15 EXAMINATION  
16 CONTINUED BY MR. ORENT:  
17 Q. Doctor, I have some follow-up  
18 questions for you.  
19 First of all, Doctor, in order to  
20 evaluate cytotoxicity in humans related to the  
21 TVT device, specifically what clinical  
22 manifestation would you expect to find in the  
23 literature to determine whether or not there was  
24 evidence of cytotoxicity? What would the  
25 clinical picture be?

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1 A. Right. There could be necrosis.  
2 There could be affects on wound healing.  
3 Q. How about -- so delayed wound healing?  
4 A. Yes, that could be evidence of  
5 cytotoxicity.  
6 Q. What about ulceration?  
7 A. I don't know.  
8 Q. Okay. You previously said you don't  
9 know what erosions are, correct?  
10 A. Right.  
11 Q. So you don't know if an erosion could  
12 be a sign of cytotoxicity, correct?  
13 A. No, I don't know.  
14 Q. Okay. How about extrusion, do you  
15 know what an extrusion is?  
16 A. Not definitively.  
17 Q. Okay. So if you're looking in the  
18 clinical literature and you see a report of  
19 extrusion, to you do you know whether or not  
20 that is a sign of cytotoxicity?  
21 MR. HUTCHINSON: Objection.  
22 Counsel, she just told you she didn't  
23 know what it was.  
24 BY MR. ORENT:  
25 Q. You can answer.

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1 A. No, I don't know specifically what  
2 that is, but I know that necrosis and impaired  
3 wound healing would be most likely what you  
4 would visualize if there was cytotoxicity.  
5 MR. ORENT: Move to strike the last  
6 portion.  
7 BY MR. ORENT:  
8 Q. Now, when an individual patient comes  
9 in and complains of -- let me see, scarification  
10 is another example of cytotoxicity, correct?  
11 A. Not that I'm aware of.  
12 Q. Fibrotic reaction?  
13 A. Not that I'm aware.  
14 Q. Okay. How about banding?  
15 A. Not that I'm aware.  
16 Q. Okay. Now, with regard again to the  
17 mesh in cytotoxicity, do you know -- I  
18 understand that you were looking for the words  
19 necrosis somewhere, but what would the physical  
20 presentation of a patient be who complains of  
21 something that ultimately may lead to a  
22 diagnosis of necrosis? What would that look  
23 like?  
24 A. I don't know. I'm not a medical  
25 doctor.

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1 Q. Okay. So if you were looking at the  
2 initial -- in any of these studies, for example  
3 Nilsson, do you know, the complications that  
4 arose between 11 and 13 years in Nilsson, did  
5 they send the pathology out for microscopy and  
6 further diagnosis to determine whether or not  
7 necrosis was present?  
8 MR. HUTCHINSON: Object to form.  
9 A. They report that there were no serious  
10 long-term TVT-induced adverse effects, so I  
11 don't think that matters for my opinions.  
12 BY MR. ORENT:  
13 Q. Okay. Well, you looked at the data  
14 tables associated with Nilsson 2013, correct?  
15 A. Yes.  
16 Q. And you're aware that there were new  
17 complications that was reported in that period,  
18 correct?  
19 A. I don't remember.  
20 Q. Okay. Well, would you have -- I mean  
21 as part of your standard practice, this is one  
22 of the few named studies that you looked at,  
23 would you have looked at the data tables in  
24 Nilsson?  
25 A. Yes.

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1 Q. Okay. So if erosion were listed as  
2 something that was new between years 11 and 17,  
3 would you have wanted to investigate what  
4 exactly that meant?  
5 A. No. I was looking for something that  
6 would indicate, clearly indicate cytotoxicity.  
7 Q. And so prior to beginning this  
8 process, prior to looking at the human clinical  
9 evidence that you've cited here, did you talk to  
10 a urogynecologist?  
11 A. No, I don't think I needed to do that.  
12 Q. Did you talk to a pathologist to find  
13 out what the clinical manifestation of these  
14 sort of things might be?  
15 A. No, I didn't need to do that.  
16 Q. Okay. Now, in terms of necrosis, have  
17 you ever seen in a medical implant study a  
18 diagnosis of something like necrosis?  
19 A. No, I haven't.  
20 Q. Okay. Do you know whether or not  
21 necrosis is something that's seen at the  
22 microscopic level?  
23 A. Yes, it would be.  
24 Q. Okay. And so do you know whether or  
25 not the clinical presentation, that a clinician

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1 would ever call it necrosis, or do you think  
2 that that would later be made by a pathologist?  
3 MR. HUTCHINSON: Objection. Outside  
4 the bounds of her report.  
5 BY MR. ORENT:  
6 Q. Do you know?  
7 A. I don't know.  
8 Q. But that would be important, wouldn't  
9 it, in determining whether or not you're likely  
10 to see the term necrosis in a clinical study,  
11 wouldn't it?  
12 A. I don't know.  
13 Q. Who makes the diagnosis of necrosis?  
14 A. I don't know for sure.  
15 Q. Okay. Now, we talked about the  
16 studies. You just mentioned you focus on  
17 studies with -- that were present at least ten  
18 years out, correct?  
19 A. Yes.  
20 Q. Okay. And do you know what percentage  
21 of complications occur before ten years?  
22 A. No, I don't think that matters for my  
23 opinions on cytotoxicity.  
24 Q. Okay. Now, in order for you to  
25 determine that a substance is cytotoxic, does it



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1 need to show cytotoxic properties in every  
2 single woman?  
3 A. No, because humans are variable.  
4 Q. Okay. So if the greatest percentage  
5 of complications occur between year one and,  
6 let's say, year seven or eight or nine, wouldn't  
7 you want to look at the complications that occur  
8 in that period of time to determine if there's  
9 evidence of cytotoxicity?  
10 A. Well, I mean I also looked at the  
11 clinical literature review of 152 randomized  
12 controlled trials, you know, that Ethicon did.  
13 So, you know, to come to my opinions about  
14 cytotoxicity I -- you know, if there were issues  
15 with cytotoxicity of the device, those issues  
16 should be long-term. I mean if this is  
17 implanted and it's causing cytotoxicity, it  
18 should cause cytotoxicity all the time, and you  
19 should be able to -- that would -- that should  
20 be a clear adverse effect. And so if this is a  
21 cytotoxic material, you would expect to see it  
22 in a large number of women.  
23 Q. Are you aware that there's 100,000  
24 mesh lawsuits in existence right now?  
25 MR. HUTCHINSON: Form.

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1 A. No, I don't know the number.  
2 BY MR. ORENT:  
3 Q. Is that a large number?  
4 A. I don't know.  
5 Q. Let me ask you -- you didn't actually  
6 answer my question, my last question, so let me  
7 just go back and ask it again.  
8 In order for you to determine that the  
9 cyto -- excuse me.  
10 If the greatest percentage of  
11 complications occur between year one and, let's  
12 say, year seven or eight or nine, wouldn't you  
13 want to look at the complications that occur in  
14 that period of time to determine if there's  
15 evidence of cytotoxicity? It's a yes or no  
16 question.  
17 A. Yes, and I did by looking at the  
18 clinical literature review.  
19 MR. ORENT: Move to strike after the  
20 word "yes."  
21 BY MR. ORENT:  
22 Q. The clinical literature review was not  
23 a clinical literature review conducted by you,  
24 correct?  
25 A. Correct.

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1 Q. And you'd agree with me that the dose  
2 makes the poison, right?  
3 A. Generally, yes, that's standard  
4 toxicology tenet.  
5 Q. And, in fact, you cite it in your  
6 report, don't you?  
7 A. Yes.  
8 Q. So understanding that the dose makes  
9 the poison, how do you account for that in the  
10 studies that look at suture versus mesh?  
11 A. Well, the mesh is larger than the  
12 sutures, so if there were chemicals leaching out  
13 of the material, there would be -- it would be  
14 in a higher concentration in the mesh versus the  
15 sutures. However, the studies -- the in vivo  
16 studies of both the sutures and the mesh show no  
17 cytotoxicity.  
18 Q. Well, would you agree with me that all  
19 of the in vivo mesh cytotoxicity studies are all  
20 short-term, correct?  
21 A. In vivo studies?  
22 Q. Mm-hmm.  
23 A. No. There was a study of up to  
24 182 days, that's considered a chronic study.  
25 Q. Okay.

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1 A. So that is not considered short-term.  
2 Q. That's the only one?  
3 A. And then the 91-day study below that,  
4 that's actually considered chronic as well.  
5 Q. Okay.  
6 A. And then the others are considered  
7 subacute, less than 30 days.  
8 Q. So we're talking 182 days, that's  
9 roughly half a year, correct?  
10 A. Yes.  
11 Q. Do you know what percentage of women  
12 with mesh complications develop those  
13 complications after the first six months?  
14 A. No, but I don't think that matters.  
15 And the lifespan of a rat is much shorter, and  
16 so I don't know -- that's not directly  
17 comparable.  
18 Q. So how do you -- what is the  
19 established peer-reviewed methodology for taking  
20 a rat study and equating it to a human?  
21 A. Well, generally you look to see if  
22 there are known -- what the differences in  
23 physiology are.  
24 Q. We already discussed one article today  
25 about the appropriate types of animals to be



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1 used in the pelvic mesh context. Are you aware  
2 of an entire body of literature that exists on  
3 the very issue of animal selection for  
4 extrapolation of information to the pelvis?  
5 A. No. But I still don't, you know,  
6 think that that would necessarily change my  
7 opinions.  
8 Q. You didn't research that, right?  
9 A. No, it's not something I researched.  
10 But I --  
11 Q. I'm sorry, I have one other question.  
12 MR. HUTCHINSON: I'm sorry,  
13 Dr. Prueitt, were you finished with your answer?  
14 A. Yeah, I wasn't quite finished.  
15 The fact that the literature I  
16 reviewed for the human clinical studies doesn't  
17 indicate cytotoxicity, you know, based on that,  
18 based on what I found from that, you know,  
19 showing a lack of cytotoxicity in women, so the  
20 potential differences in physiology among the  
21 different species, you know, it may not matter.  
22 BY MR. ORENT:  
23 Q. So when you were talking about your  
24 opinion relative to women in the human clinical  
25 data earlier, you said something. You said that

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1 your opinion is that there's no evidence of  
2 cytotoxicity in women. Do you recall saying  
3 that?  
4 A. Yes.  
5 Q. Now, I want to just clarify. Is your  
6 opinion the TVT is not cytotoxic in women, or is  
7 it that you have seen no evidence of  
8 cytotoxicity in women?  
9 A. I want to be consistent with my  
10 report.  
11 Q. I'll let you go to your report in a  
12 second.  
13 Can you answer that question without  
14 looking at your report, Doctor?  
15 A. No, I just want to be consistent with  
16 it.  
17 Q. So you cannot answer that without  
18 looking at your report?  
19 MR. HUTCHINSON: Counsel, she made  
20 reference that she wants to look at the report.  
21 MR. ORENT: That's fine.  
22 BY MR. ORENT:  
23 Q. I just want the record to reflect that  
24 I've asked that question to what your opinion is  
25 before you review your report. And if you need

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1 that to look at it, that's fine, but I want the  
2 record to reflect that you need your report to  
3 answer that question.  
4 MR. HUTCHINSON: Let the record  
5 reflect the witness has told you she wants to be  
6 consistent.  
7 A. The clinical studies show no evidence  
8 of cytotoxicity, the clinical studies I  
9 reviewed.  
10 BY MR. ORENT:  
11 Q. Okay. So is your opinion that you  
12 have seen no evidence of cytotoxicity, or is it  
13 that the TVT is not cytotoxic?  
14 A. Well, the fact that I've seen no  
15 evidence of cytotoxicity in women combined with  
16 the other evidence that I evaluated leads me to  
17 conclude that the weight of the evidence  
18 indicates that the TVT is not cytotoxic in women  
19 to a reasonable degree of scientific certainty.  
20 MR. ORENT: Okay.  
21 MR. HUTCHINSON: We don't have any  
22 further questions.  
23 Thank you, Dr. Prueitt, for your time.  
24 MR. ORENT: Thank you.  
25 THE VIDEOGRAPHER: Going off the

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1 record. This concludes the deposition of  
2 Dr. Prueitt of October 22nd, 2015. The time is  
3 1:15.  
4 (Whereupon, the deposition was  
5 concluded.)  
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1 COMMONWEALTH OF MASSACHUSETTS )  
2 SUFFOLK, SS. )  
3 I, MAUREEN O'CONNOR POLLARD, RMR, CLR,  
4 and Notary Public in and for the Commonwealth of  
5 Massachusetts, do certify that on the 22nd day  
6 of October, 2015, at 9:48 o'clock, the person  
7 above-named was duly sworn to testify to the  
8 truth of their knowledge, and examined, and such  
9 examination reduced to typewriting under my  
10 direction, and is a true record of the testimony  
11 given by the witness. I further certify that I  
12 am neither attorney, related or employed by any  
13 of the parties to this action, and that I am not  
14 a relative or employee of any attorney employed  
15 by the parties hereto, or financially interested  
16 in the action.  
17 In witness whereof, I have hereunto  
18 set my hand this 24th day of October, 2015.  
19  
20 \_\_\_\_\_  
21 MAUREEN O'CONNOR POLLARD, NOTARY PUBLIC  
22 Realtime Systems Administrator  
23 CSR #149108  
24  
25

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1 INSTRUCTIONS TO WITNESS  
2  
3 Please read your deposition over  
4 carefully and make any necessary corrections.  
5 You should state the reason in the appropriate  
6 space on the errata sheet for any corrections  
7 that are made.  
8 After doing so, please sign the  
9 errata sheet and date it. It will be attached  
10 to your deposition.  
11 It is imperative that you return  
12 the original errata sheet to the deposing  
13 attorney within thirty (30) days of receipt of  
14 the deposition transcript by you. If you fail  
15 to do so, the deposition transcript may be  
16 deemed to be accurate and may be used in court.  
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1 ACKNOWLEDGMENT OF DEPONENT  
2  
3 I, \_\_\_\_\_, do  
4 Hereby certify that I have read the foregoing  
5 pages, and that the same is a correct  
6 transcription of the answers given by me to the  
7 questions therein propounded, except for the  
8 corrections or changes in form or substance, if  
9 any, noted in the attached Errata Sheet.  
10  
11 \_\_\_\_\_  
12 ROBYN LYN PRUEITT, Ph.D., D.A.B.T. DATE  
13  
14  
15 Subscribed and sworn  
16 To before me this  
17 \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.  
18 My commission expires: \_\_\_\_\_  
19  
20 \_\_\_\_\_  
21 Notary Public  
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23  
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